AD/A-005 360

ANALYSIS OF VIETNAMIZATION: DATA
MANAGEMENT AND QUALITY CONTROL

William C. Prince, et al

Bendix Corporation

Prepared for:

Defense Advanced Research Projects Agency

July 1973

AD/A-005360

## DOCUMENT CONTROL DATA - R & D

*(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)*

| 1 ORIGINATING ACTIVITY (Corporate author) | 2a. REPORT SECURITY CLASSIFICATION |
|---|---|
| The Bendix Corporation<br>Aerospace Systems Division<br>3300 Plymouth Road, Ann Arbor, Michigan 48107 | Unclassified |
| | 2b. GROUP<br>N/A |

3 REPORT TITLE

Analysis of Vietnamization: Data Management and Quality Control

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

Final Report, Volume II, Feb. 1971- July 1973

5. AUTHOR(S) (First name, middle initial, last name)

William G. Prince
John H. Adkins
John J. Mac Dougall

| 6 REPORT DATE | 7a. TOTAL NO. OF PAGES | 7b. NO. OF REFS |
|---|---|---|
| July 1973 | 177 | 1 |

| 8a. CONTRACT OR GRANT NO<br>DAHC 15 71 C 0222 | 9a. ORIGINATOR'S REPORT NUMBER(S)<br>BSR 4033, Vol. II |
|---|---|
| b. PROJECT NO | |
| c. ARPA Order No. 1770 | 9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) |
| d. Program Code No. 1G10 | |

10 DISTRIBUTION STATEMENT

Qualified requestors may obtain copies of this report from DDC.

| 11 SUPPLEMENTARY NOTES | 12 SPONSORING MILITARY ACTIVITY |
|---|---|
| | Defense Advanced Research Projects Agency |

13 ABSTRACT

This report describes the various data sets employed in the Analysis of Vietnamization study and some of the major problems encountered and solutions devised in ordering them for appropriate use in our research design. Appended to this report are several code books which list and/or describe the variables used in specific analyses.

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
US Department of Commerce
Springfield, VA. 22151

**PRICES SUBJECT TO CHANGE.**

/

| 14 KEY WORDS | LINK A | | LINK B | | LINK C | |
|---|---|---|---|---|---|---|
| | ROLE | WT | ROLE | WT | ROLE | WT |
| Vietnamization | | | | | | |
| Data Management | | | | | | |
| Code Books | | | | | | |
| Guerrilla War | | | | | | |
| Conflict | | | | | | |

ANALYSIS OF VIETNAMIZATION:
DATA MANAGEMENT AND QUALITY CONTROL

Final Report
Volume II

Sponsored by:

Defense Advanced Research Projects Agency
ARPA Order No. 1770
Program Code No. 1G10

Under Contract No.
DAHC 1571 C 0222
Dated: 24 February 1971
Expiring: 23 May 1973

Prepared by:

Department of Applied Science and Technology
Bendix Aerospace Systems Division
3300 Plymouth Road
Ann Arbor, Michigan 48107

July 1973

Principal Investigator: W.G. Prince
AC 313 - 665-7766, Ext. 467

Co-authors: J.H. Adkins and J.J. MacDougall
AC 313 - 665-7766, Exts. 8166 and 8167

The views and conclusions contained in this
document are those of the authors and should
not be interpreted as necessarily represent-
ing the official policies, either expressed or
implied, of the Advanced Research Projects
Agency or the US Government.

# CONTENTS

# CONTENTS (CONT.)

## ILLUSTRATIONS

# SECTION 1

## SUMMARY

In general terms, the primary aim of the Analysis of Vietnamization study has been the identification and interpretation of the statistical relationships among the following concepts:

1. GVN, US, and 3rd Country Resources

2. GVN, US, and 3rd Country Military Activities

3. Viet Cong (VC) and NVA Resources

4. VC and NVA Military Activities

5. GVN Political and Economic Activities

6. VC and NVA Political and Economic Activities

7. Cultural and Economic Factors

8. Other Environmental Factors

9. Popular Attitudes

10. Political Behavior.

Planners and decision-makers have long recognized that the relationship between concept 2, GVN, US, and 3rd Country Military Activities, and concept 10, Political Behavior, is weak, probably indirect, and conditioned in varying ways by the intervening concepts 1 and 3 through 9 . The definition of counter-insurgency itself demonstrates an awareness of the complexity of the relationships among these concepts by stating that counterinsurgency consists of "those military, paramilitary, political, economic, psychological, and civic actions taken by a government to defeat subversive insurgency."[1] Before this study could begin to identify and interpret the relationships among these concepts, a time-consuming and tedious effort first had to be devoted to the selection of variables or combinations of variables from the available data which best define these concepts and measure variation among them.

---

[1] Joint Chiefs of Staff, Dictionary of United States Military Terms for Joint Usage, JCS Pub. 1, (GPO, Washington, D.C., 1966), p. 51.

EMBARRASSMENT OF RICHES

The effort to select appropriate variables as measures of the concepts to be studied was long and difficult for several reasons, not the least of which was the large number of variables available for our use. The first dataset examined, the Southeast Asia Province File (SEAPRS), is composed of over 200 variables recorded monthly for the 44 provinces and 53 other areas or aggregation of provinces. Once this file was processed into a form permitting rapid access, each variable was screened for missing data points, amount of zero observations, and extreme values which might be in error. This screening was very important for the SEAPRS data because of the need to distinguish between zeros which are real and those which represent missing data.

With regard to friendly resources and activities it was found that more detail than available in SEAPRS was needed. This decision was based on both the need to obtain better measures and a weakness in the friendly strength data. For example, we found data indicating ARVN activity in a given province-month, but no indication of ARVN strength in that particular province-month (the battalion headquarters was elsewhere). The additional detail came from OASD (SA) files based on the System for Evaluating the Effectiveness of Republic of Vietnam Armed Forces (SEER) and the Territorial Forces Evaluation System (TFES). The SEER reports are in two files known as AMFSA and AMFESMA corresponding to the 1968 and 1969-70 versions of the SEER. These files are rich sources of data consisting of over 300 and 1500 variables for each of over 300 battalions, squadrons, regiments, groups, and divisions. After the initial screening this data was merged into a set of 68 variables compatible for the 1968 and 1969-70 reporting systems and reorganized from unit records to province records on the basis of where the units operated. The TFES file is also very large including logistics and personnel data as well as mission categories and operational results.

There was a need to measure social, economic, administrative, and political concepts in greater detail than available in the summary pacification scores included in SEAPRS. To this end the province level aggregations of raw responses to more than 50 Hamlet Evaluation System (HES) questions were obtained in the OASD (SA) file known as QHES. Another source of data acquired later in the study dealt with public attitudes. This is the individual responses to interviews conducted in the Pacification Attitude Analysis System (PAAS). There are approximately 30 interviews per province with 40 or more questions in each monthly survey. Because the questions vary from month to month only limited use was made of this data. Several questions relating to economic and administrative topics were aggregated at province level and incorporated in the cross-sectional work on village program effectiveness.

EXCESSIVE ZERO OBSERVATIONS

The need to select variables according to the above rules required screening
each dataset to eliminate the variables with excessive missing data and/or exces-
sive zero observations. Data with excessive (generally more than 10 percent) zero
observations presented a special problem. For example, one variable might be
easily deleted because its substantive meaning is not very significant with respect to
study objectives. An example of such a variable would be Crew-Served Weapons
Lost by 3rd Country Forces on Small Operations. This variable could readily be
deleted since it has neither substantive importance nor variance. A more difficult
decision was posed by another variable also having excessive zero observations;
i. e., North Vietnamese Maneuver Battalions. The substantive importance of NVA
Battalions in measuring the concept VC and NVA Resources is so obvious that it
could not be deleted from the study despite its many zero values and despite the
fact that NVA Battalions had only been present in a minority of province areas. To
make appropriate use of this variable, it was first necessary to undertake an analy-
sis of its cross-province variation. Such preliminary analysis suggested ways of
grouping provinces according to the similar distribution of particular variables and
permitted time series analyses using variables that described differences over all
areas as statistical controls. In either or both cases, such preliminary analyses
were most useful when approaching the problems involved in deleting variables con-
taining many zeroes or in coping with the statistical distortion caused by many
zeroes.

CREATION OF INDICES

For each of the general concepts analyzed, the method of selecting several
variables for construction of an index posed more complex problems. For purposes
of clarity and parsimony, it was necessary to combine such specific and richly de-
tailed variables as Night Contacts per Battalion Day on ARVN Large Unit Operation
Day, Popular Force (PF) Outposts with other variables that measured variation on
the same underlying general concept in a single index or surrogate variable. The
selection of variables to be combined in an index or selected as a key surrogate
posed difficult questions, for example, in the following case of the concept Enemy
Resources.

It is obvious that the variable NVA Maneuver Battalions cannot alone serve
as an index of Enemy Resources and that such resources would more accurately
be defined as a VC as well as an NVA phenomenon. In an attempt to combine
VC and NVA military strength in a VC/NVA index of Enemy Resources, could one
assume that VC and NVA Maneuver Battalions are of equal power and create an
index by summing the two variables? Or does an NVA Maneuver Battalion have so
much greater impact on the other concepts that it should be weighted more heavily

in combination with VC Maneuver Battalions in an index? Might one merely sum the personnel strength of NVA and VC units in a new variable on the assumption that it is the quantity of personnel rather than their distribution or organization that is most important? If so, would not one lose the ability to explore the changing distribution patterns of enemy resources with changing circumstances?

In considering other data on Enemy Resources, other problems encountered involved the combining of VC Companies and VC Platoons in a single index and in organizing data on Viet Cong Infrastructure (VCI) strength and VC Guerilla Strength. In the latter case, a monthly VCI dataset by provinces was not reported during the first 13 months of the 1967 to 1970 period. A monthly province VCI dataset could be estimated from one observation of province data and monthly Corp Tactical Zone (CTZ) aggregations by assuming that the province distribution of VCI remained constant.

These and similar problems have had to be and have been considered in selecting those variables that would best measure the concepts under analysis. The general procedure followed has been to undertake preliminary time series analysis with theoretically-significant variables retaining their identities. When the underlying pattern of variance over time could be identified as a particular concept, indices composed of approprate variables could then be constructed which best capture as much of the complexity of the behavior of these variables as possible.

INDICES EMPLOYING HAMLET EVALUATION SYSTEM (HES) AND OTHER DATA

To create indices that would reduce the voluminous HES dataset (see Appendix F) the original collection of variables was carefully examined and intuitively grouped as they defined substantive concepts of theoretical interest. (See Appendix G for the Rules and variables/questions employed in creating indices). Following this examination and categorization, the variables were subjected to the time series analysis which collected them on factors much as had been done with operational data. The result of these analyses was a file that included the responses to 72 questions which were then weighted and utilized in creating ten indices defining theoretically interesting concepts.

An additional indexing process also involved summarizing information from over 300 variables and questions from the QHES, SEAPRS, TFES, and System for Evaluating the Effectiveness of the Armed Forces of Vietnam (SEER) files to create a new file of 14 index measures. (See Appendix H for a List of Key Indicators for Coercive Acts and Political Influence. This list also contains the weighting and organization rules employed in creating the 14 indices employed in related analyses).

## INDICES EMPLOYING PACIFICATION ATTITUDE ANALYSIS SYSTEM (PAAS) DATA

PAAS was developed to measure trends of Vietnamese popular opinion and to measure reaction to specific events. The PAAS dataset includes responses to hundreds of questions on dimensions relevant to the concepts studied in this project. Unfortunately, our research design had anticipated the use of the PAAS data as a time series. While a few questions were consistent over time, their limited scope and missing data problems prevented us from obtaining a reliable identification of basic patterns as was done with the HES and military operations data.

In different analyses employing PAAS data, the five response categories were collapsed either on two attitudinal dimensions ("unfavorable-favorable" to the GVN) or on three (high, medium, low) dimensions describing popular attitudes on various issues, e. g., "administration of land reform laws." In the first two analyses, the percentages of respondents expressing favorable or unfavorable attitudes toward the GVN were averaged by province; in the third analysis, responses were ranked in high, middle, or low ranges by provinces and in terms of their attitudes toward the administration of land reform programs.

While these data management techniques permitted useful, if sparing, employment of selected PAAS questions for the purposes of this analysis, this dataset still remains a rich and interesting data base to be tapped by analysts with different interests.

## CHANGES IN THE REPORTING SYSTEM

In several of the datasets, changes in the reporting systems during the time period analyzed posed peculiar problems in data management. In the SEER reporting system, the problems primarily involved changes in the type of variables and number of distinctions made in defining kind, size, duration, time and outcome of operations in the data during the time period analyzed. A continuous time series was eventually obtained by selecting nearly identical and/or at least similar aggregations of variables from the two SEER datasets.

Another problem encountered in the SEER dataset involved creation of a province-oriented file. Preliminary screening of strength and operations data and comparison of the "unit headquarters" location at month's end with the location of operations conducted during the month indicated that numerous errors would be introduced by using only "unit headquarters" location at month's end since many units were highly mobile. To minimize such errors, coding rules using Operations Locations as well as Headquarters Locations were developed and employed in creating province data from battalion data.

Within the HES variables in the SEAPRS data, a serious problem was posed by the existence of two differently reported versions of the HES in the time period analyzed. Although the basic concepts measured and reported, with the exception of the treatment of non-hamlet population, remained consistent in the old and new reporting systems, the new system was more responsive to changing conditions in the hamlets and, therefore, yielded quite different scores for the same basic concepts. Examination of the scores during the six-month overlap period between the old and new HES systems did not immediately suggest a general transformation procedure that would appropriately adjust for these discontinuities. Several adjustment techniques were tried on a variable-by-variable basis for each province. The technique finally adopted was based on the conclusion that the first month of the old system was the most accurate data point for that system and that the monthly direction of change in the variable scores in the old system reflected field realities as reported by other sources. After some trials, it was assumed that the third month (month 33) in the new reporting system was the appropriate data point from which to merge the two systems; the amount of month-to-month variance in the old system was mathematically adjusted to make the value of month 33 coincide with the value at that time for the new system. Several other problems remained and were resolved on a case-by-case basis. There were also relatively minor problems posed by small blocks of missing data (four provinces over six months) and anomalies in the total population figures which had been hidden in Corps Tactical Zone (CTZ) or countrywide aggregations.

## ACCESSIBILITY TO THE DATA

The amount of data to be organized, screened, reorganized and finally employed in various analyses required construction of a file structure which would consume a minimum of computer time in the process of accessing a given variable for any area, group of areas, or aggregations for a desired time period. As data from the SEAPRS file was received on tape, access to a set of variables from the SEAPRS file for each of the 44 provinces for each of the 48 time points would have required reading all the area identifications, time codes, and record type codes in the entire tape once for each variable. Additional time would be required, in certain cases, to read the subset control codes once the desired area, time, and record type were located. Also, for cases in which a subset was present only where a non-zero value was present for that subset, a judgment would have to be made to determine if the zero value represented a zero or missing data with insertion of a zero or missing data code for each observation where the desired subset could not be found. This procedure required hours of computer time to construct a working file consisting of but a few variables.

To reduce the amount of time required for assessing variables, the data was organized into defined files stored on disks. In the defined file, each variable, area, and time point has a unique record number which can be accessed directly without reading area identifications, time codes, record type codes, or subset control codes. For reading any given variable, the record number to be read is defined by the area number plus the total number of areas in the file times the quantity variable number minus one. Using this file structure, the time required to conduct analyses directly from a file such as SEAPRS, using data on dozens of variables for one or all the provinces, is reduced to minutes. At least two steps were required in the construction of a defined file for each dataset. Initially, a sequential file was created on disk storage for each record type. At the same time, "zone" punches, which were present in much of the data as received, were stripped in order to have the data in a form which could be used for analysis. Each observation was then written into the defined file in its appropriate location. For cases where there was no record in the data for a specific variable, area, and time, the defined file contains a -0.0, indicating missing data. After screening each variable for missing data, zeros were inserted in the defined file for all observations where it was apparent that absence of a record meant that zero should be the observed value, as in the H and I records of the SEAPRS file.

The following sections describe each of the datasets received and the specific problems encountered in organizing the data for analysis.

## SECTION 2

## SOUTHEAST ASIA PROVINCE (SEAPRS) FILE

The SEAPRS file consists of monthly province data summarized from 15 parent files and two hard copy reports held by OASD(SA). In addition to the province data, the SEAPRS file includes various aggregations of provinces to provide Military Region (CTZ), VC Military Region, Division Tactical Area/Special Tectical Zone, and countrywide data summaries. Data from each parent file are organized within each of 12 record types as follows:

- A RECORDS — One variable for the number of friendly maneuver battalions for the three subsets for US, GVN, and 3rd Country as derived from the SEAFA file.

- B RECORDS — Ten variables for enemy captured, enemy killed, friendly killed, friendly wounded, individual and crew served weapons captured and lost, battalion days, and number of operations for each of six subsets for US, GVN, and 3rd Country large and small operations derived from VNDBA (OPREP) reports. Three variables for friendly killed, friendly wounded, and number of operations for each of ten subsets for RVNAF, RF, PF, "Other," and "Unknown" GVN large and small operations as coded from OPREP reports.

- C RECORDS — Five variables for US Army, Marine, Air Force, Navy and Coast Guard, and total US combat deaths coded from comptroller casualty reports.

- D RECORDS — One variable for numbers of Hoi Chanh for three subsets for military, political, and "other" categories of returnees as reported under the Chieu Hoi program.

- E RECORDS — 24 variables for population in each of the rural and total population categories of AB, ABC, DE, "other", and VEE security and pacification scores; contested, GVN controlled, and VC controlled non-hamlet population; and Vietnam Special Studies Group (VSSG) indicators of GVN and VC control as derived from the HAMDA, RUMDA, and VSSG parent files, Old Hamlet Evaluation System (HES).

- F RECORDS — 19 variables for population in each of the rural and total population categories of AB, ABC, DE, and "other," and VEE security and pacification scores; and the VSSG indicators of GVN presence, GVN control, and VC control as derived from the ADHES, RDHES, and VSSG70 parent files (HES 70).

- G RECORDS — One variable for each of 15 subsets for NVA maneuver, combat support, and administrative strengths; VC maneuver, combat support, separate company, separate platoon, local guerrilla, and administrative strengths; NVA maneuver and combat support battalions; and VC maneuver battalions, combat support battalions, separate companies, and separate platoons as derived from the OBSEA parent file.

- H RECORDS — One variable for each of 48 subsets for numbers and results of six categories of enemy incidents directed against ten categories of military targets as derived from the VCIIA parent file.

- I RECORDS — One variable for each of eight subsets for numbers and results of two categories of enemy incidents directed against two categories of civilian targets as derived from the TIRSA pa ent file.

- J RECORDS — Six variables for number of ARVN/VNMC large and small operations, battalion days on large operations, assigned strength, friendly killed, and enemy killed as derived from the AMFSA and AMFESMA parent files, System for Evaluating the Effectiveness of the ARVN (SEER).

- K RECORDS — One variable for each of three subsets for the strength of national, special, and "other" police units as derived from the NAPE parent file.

- L RECORDS — One variable for each of two subsets for number of RF companies and PF platoons; and five variables for personnel strength enemy killed, friendly killed, number of night operations and total operations for each of two subsets for RF and PF as derived from the DISTRA parent file, Territorial Forces Evaluation System (TFES).

A gross screening for the number of records contained in each subset was carried out while creating the 12 disk files by record type. This screening revealed that no records were present for five of the H record subsets; HSA, HUA, H3F, ILF, and K3A. After the defined file was constructed for the 241 remaining variables, the entire dataset was screened by province by month for missing or zero observations and extreme values (greater than two standard deviations above

or below the mean). Typical and interesting results of this screening process are shown in Figures 2-1 through 2-11.

The results of such data screening illustrated six basic problems in attempting to select data from and control the quality of that data in the SEAPRS dataset.

The first problem, too many zero observations, was the most common difficulty (See Figures 2-2, 2-5, 2-6, 2-7, 2-9, and 2-10). An early guide in selecting variables for this study has been that variables with more than ten percent missing or zero values should be rejected. Use of this norm in rejecting variables would result, however, in the loss of some of the most critical variables, e.g., NVA Maneuver Strength, VC Separate Platoon Strength, U.S. Large Operation Battalion Days, Enemy Killed in Ground Assaults, PF Killed in Ground Assaults, and RF Killed In Harassment. Since those variables were most relevant, theoretically, to the aims of this study, they could not be rejected. Other variables with excessive zero observations but of peripheral theoretical relevance; e.g., Crew Served Weapons Lost by Third Country Forces; could readily be discarded. In this study, theoretically critical variables were retained and analytical methods designed to cope with the excessive-zero problems were devised.

The second problem was that of missing data for blocks of time across all areas. This is illustrated in Figures 2-2, 2-5, 2-6, 2-10 and 2-11. Missing data was to be expected for ARVN/VNMC Assigned Strength, RF Night Operations, and the VSSG VC Control Index because the reporting systems were not functioning throughout the entire 48 months. However, VC Guerrilla Strength, RF Night Operations, US Large Operation Battalion Days, and Civilian Killed by Terrorism contained some surprising missing data. In the 1972 SEAPRS file, data on friendly and enemy Regular and Territorial Strength was largely missing in all provinces after the Easter Offensive. All that could be done in these cases was to use an alternative variable which appeared to measure the same concept, use an alternative data source, use some estimation technique to fill in the missing values, or limit the analysis to time periods when the data was available. All four approaches were used in this project. Since US Army Personnel Killed In Action correlates highly with Large Operation Battalion Days, a single variable or a factor score could be used to measure the Level of US Offensive Effort as a concept. For missing RF data, an alternative data source, the TFES Summary File, was used. Both an alternative source, the two SEER files, and estimation techniques were used for missing ARVN/VNMC Assigned Strength and other data. Analyses involving VC Guerilla Strength simply did not include the 18-month period when the data was missing. A particularly severe missing data problem was posed by missing friendly and enemy, regular and territorial, force-strength data in April - October 1972. Because of the importance of this data in our analysis, considerable
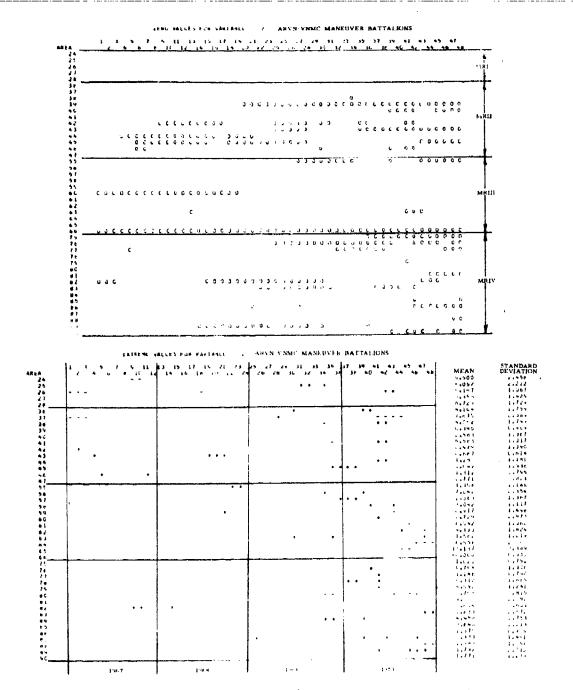
Figure 2-1 Screening of ARVN/VNMC Maneuver Battalions

ZERO VALUES FOR VARIABLE 264 ARVN VNMC ASSIGNED STRENGTH



EXTREME VALUES FOR VARIABLE 264 ARVN VNMC ASSIGNED STRENGTH
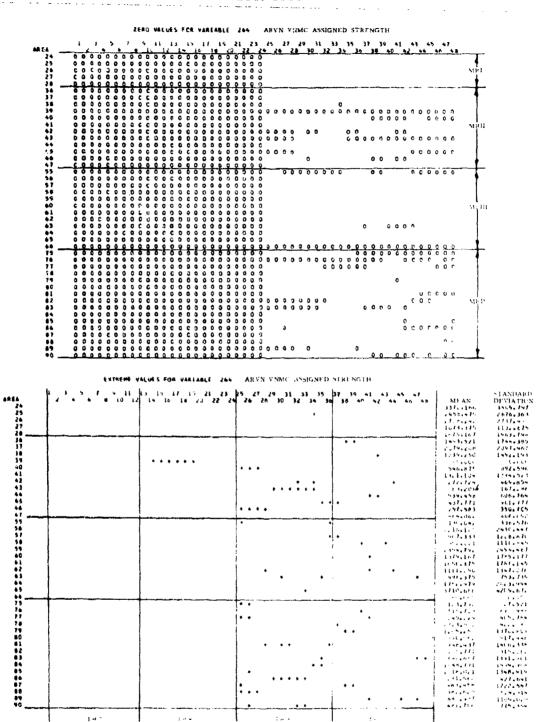


Figure 2-2  Screening of ARVN/VNMC Assigned Strength

ZERO VALUES FOR VARIABLE    63   ARVN/VNMC LARGE UNIT OPERATIONS
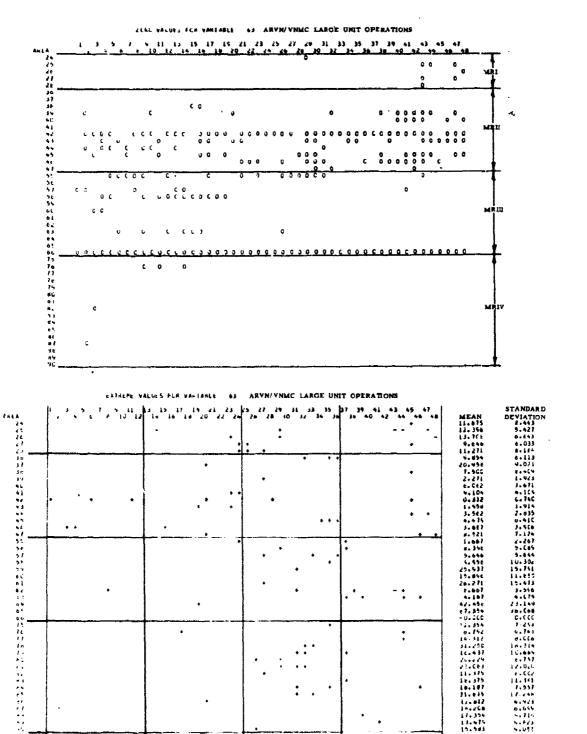
Figure 2-3  Screening of ARVN/VNMC Large Unit Operations

ZERO VALUES FOR VARIABLE   73   ARVN VNMC SMALL UNIT OPERATIONS



EXTREME VALUES FOR VARIABLE   73   ARVN VNMC SMALL UNIT OPERATIONS
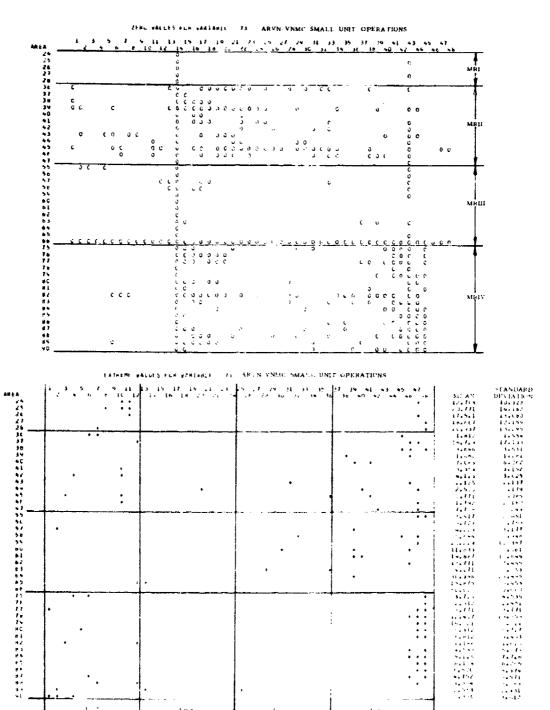
Figure 2-4  Screening of ARVN/VNMC Small Unit Operations

ZERO VALUES FOR VARIABLE 279 RF NIGHT OPERATIONS



EXTREME VALUES FOR VARIABLE 279 RF NIGHT OPERATIONS
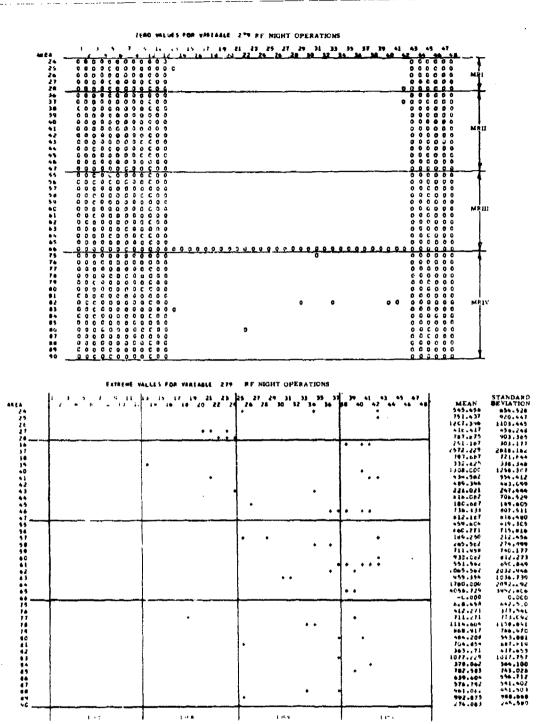


Figure 2-5  Screening of RF Night Operations

ZERO VALUES FOR VARIABLE   35   US LARGE OPERATION BATTALION DAYS

EXTREME VALUES FOR VARIABLE   35   US LARGE OPERATION BATTALION DAYS
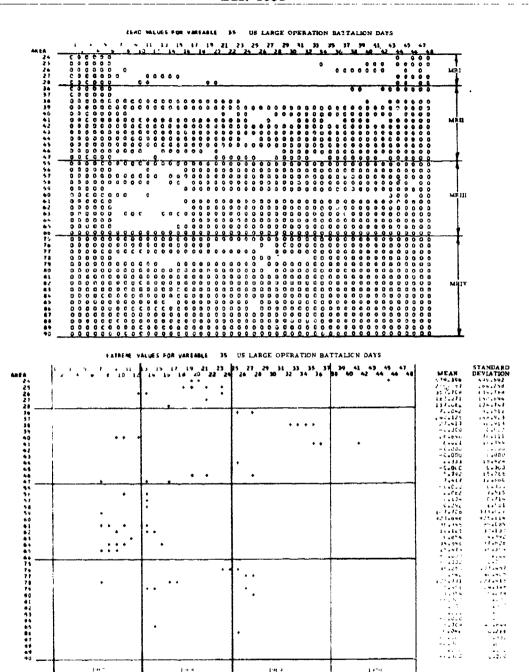
**Figure 2-6  Screening of US Large Operation Battalion Days**

REAL VALUES FOR VARIABLE  127    ENEMY KIA IN GROUND ASSAULTS
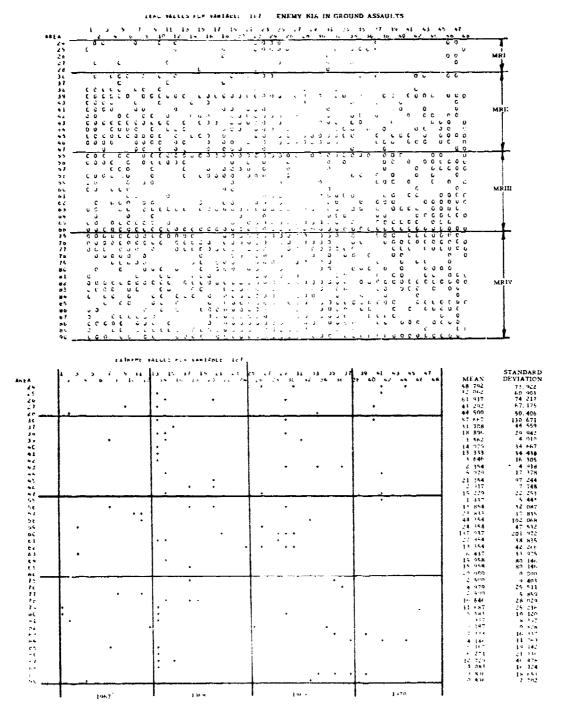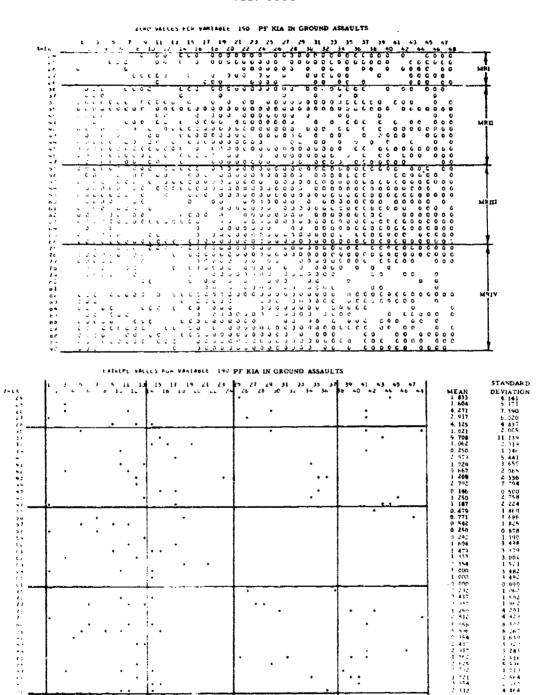
Figure 2-7  Screening of Enemy KIA in Ground Assaults

ZERO VALUES FOR VARIABLE 190 PF KIA IN GROUND ASSAULTS



EXTREME VALUES FOR VARIABLE 190 PF KIA IN GROUND ASSAULTS



Figure 2-8  Screening of PF KIA in Ground Assaults

ZERO VALUES FOR VARIABLE 194 RF KIA BY HARASSMENT

MEAN STANDARD DEVIATION

EXTREME VALUES FOR VARIABLE 194 RF KIA BY HARASSMENT

1967     1968     1969     1970

**Figure 2-9  Screening of RF KIA by Harassment**

Figure 2-10  Screening of Civilians Killed by Terrorism

Figure 2-11  Screening of VSSG VC Control Index

effort was made to obtain it. Initially, efforts were made to estimate the missing strength data from existing casualty data on the basis of various strength/casualty ratios derived from the 1967-1971 data. This estimating technique tended to over-estimate strength values and was rejected. Subsequent efforts to estimate the missing data involved a time-consuming review of hundreds of published accounts of military activities in April - October from a wide variety of open sources and the extraction of raw data on friendly and enemy combat-strength, unit-identification, movements and activities on a d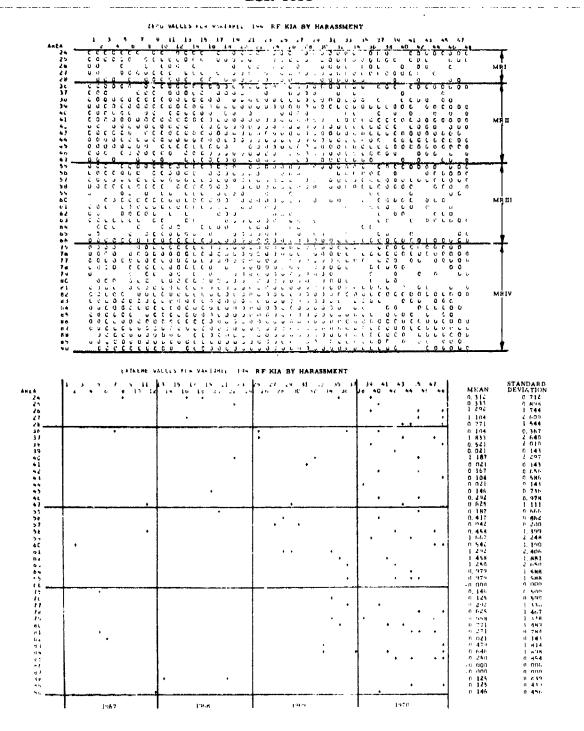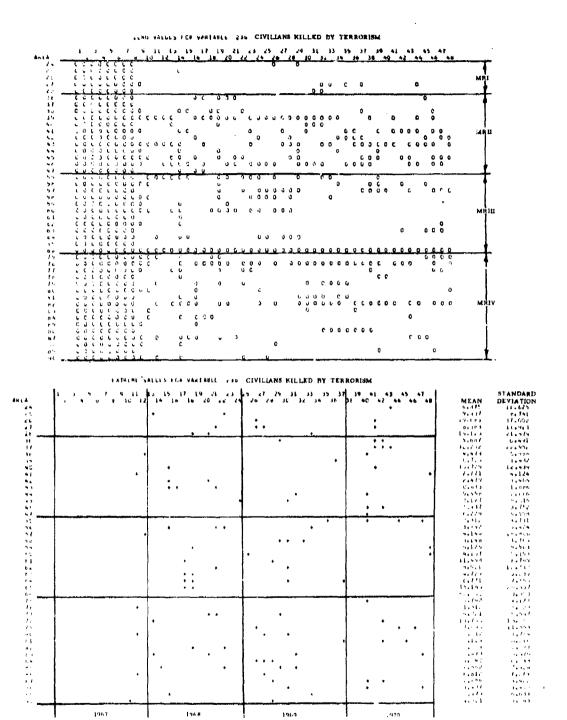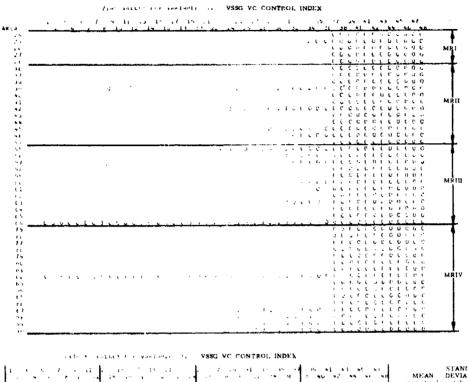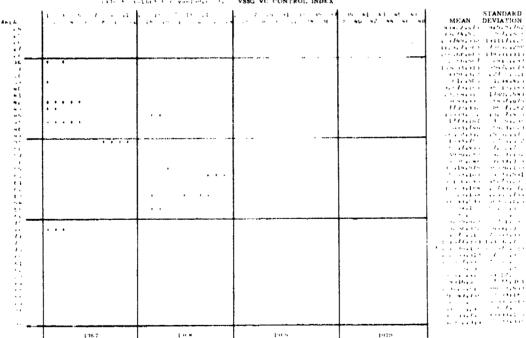ay-to-day basis in the 44 provinces of South Vietnam. Forty-four separate province-history files were created and as relevant data from the SEAPRS file was obtained, it was added to those files. By January 1973, with the addition to these province files of the latest Office of Assistant Secretary of Defense/Systems Analysis (OASD/SA) estimates of enemy strength and locations and with the addition of the latest Defense Intelligence Agency province-month estimates of the missing variables, it was possible to estimate the missing data values by relating them as closely as possible to comparable data reported in a variety of these official and unofficial sources. Estimates of the missing data for April - October 1972 were then entered into the working file in February 1973.

The third problem, another missing data problem, involved a month of zeroes or missing data across all areas for ARVN/VNMC Small Operations. A check of other data on this variable showed the same pattern. The first conclusion to be arrived at was that there were no ARVN/VNMC Small Unit Operations in that particular month, February 1968. Since February 1968 was the month of the "TET Offensive", one might also conclude that hostilities had so escalated that all operations were reported as Large. A final conclusion was that the Reporting System was so disturbed during the TET Offensive that no Small Operations were reported. This final conclusion was the one acted upon in this study.

In Figure 2-3, one may also note a variation of the column of zeroes for Area 66. Investigation of several old and new maps of SVN revealed that Area 66, the province of Phuoc Thanh, was incorporated into Binh Duong Phuoc Long, Long Khanh, and Bien Hoa Provinces prior to 1967. It was easy to delete Area 66 from the dataset since the data of Area 66 had apparently been redistributed appropriately at an earlier time.

A fourth problem, another missing data problem, is demonstrated by the block of zeroes over eleven months for the final four provinces of MR IV (See Figure 2-11). This variable, the VSSG VC Control Index, was apparently zero for that time period and examination of other evidence indicated that such scores might well be correct. When examination of the VSSG GVN Control Index for the same period also showed zeroes, this data was compared with that at OASD(SA) and found to be the result of an error in the original tape. The correct values for these variables were obtained and inserted for the appropriate times and places.

A fifth problem was associated with the method of creating data files. Unless a record was present in the SEAPRS file, a missing data symbol (-0.0) was placed in the defined file. This meant that for variables from record types A, B, D, G, H, and I, the -0.0 missing data symbol was present instead of a zero. To use these variables, it was necessary to review the data, to identify the time periods where there actually was missing data, and to change all -0.0's to 0's for all other time periods when performing analyses which used the missing data code.

A number of other problems were encountered in the process of preparing the SEAPRS file for analysis. The first tape received was damaged by a tape drive and could not be read because of a worn spot every record length. The second tape had errors in the data caused by an aggregation of values within each record type and spillover into the next record type. The third tape did not contain the G records. The records were later obtained and processed separately.

## SECTION 3

## TERRITORIAL FORCES EVALUATION SYSTEM
## (TFES) SUMMARY FILE

The TFES Summary file contains data summarized from the more than 150 unit attribute variables reported on the thousands of RF/PF units and the 114 operational variables reported by districts. This summarization results in 96 variables (80 unit attributes and 16 operational) aggregated by provinces. The decision to use the TFES Summary data was made in order to obtain variables which indicated mission, level of support received, and interactions with other forces which are reported under TFES. Unfortunately, the TFES Summary file contains only the mission data. However, using the basic TFES data appeared to pose too many problems in data management to be justified by the uncertain advantage of having the logistics status and Combined Joint Operations data available.[2]

The data in the TFES Summary file consists of the following five record types:

- **A, P, R, AND O RECORDS** — Twenty variables for each of four subsets of unit attributes for RF rifle companies, PF platoons, all RF units, and RF overhead units. These variables include the total number of units; the number of units with prime missions of hamlet/village security, lines of communication (LOC) security, "other" security, offensive operations, reaction force (reserve?) and "other"; the number of outposts; officers, non-commissioned officers (NCO), and other enlisted, assigned and present for duty; and advisor ratings in responsiveness to orders, leadership, participation, attitude toward orders, attitude toward subordinates, and attitude toward leaders.

- **Z RECORDS** — Sixteen variables for RF and PF (eight each) night and day operations conducted, night and day operations with contact, friendly and enemy killed, enemy weapons captured, and weapons lost.

---

[2] It has been soundly argued that analysis of the RF/PF should be carried out using companies and platoons as the units of analysis because aggregation to the province or even district level will lose the differences between units and their situations, which explain why some units are successful in providing security while others are not. However, it was decided that the analysis should first seek regularities and explanations at the province level only, at this early stage of the project.

Both the initial data screening and the question of substantive meaning as coded prompted a decision to delete the advisor ratings from the defined file created for the TFES data. The records for RF overhead units were also deleted, although they could have been retained and total RF units deleted as well. Officers, NCO, and other enlisted were summed to create two variables for assigned strengths and present for duty for the A, P, and R type records. Three variables for the Percent of Assigned Strength Present were created for officer, NCO, and "other enlisted" for each record type. The defined file, thus, contains 55 variables for 44 province aggregations. Since the sequence of provinces is the same as in the SEAPRS defined file, analyses using data from both files is a relatively simple problem. Data screening of the completed defined file revealed no missing data problems and few variables with excessive zero observations. Units Assigned to Reaction Missions, Operations with Contact, and Weapons Lost contained the most zero observations, but they are not necessarily excessive, considering their substantive meaning.

SECTION 4

SYSTEM FOR EVALUATING THE EFFECTIVENESS OF
THE ARMED FORCES OF VIETNAM (SEER) FILE

There are two sources of ARVN/VNMC operational data in the SEAPRS file, the B and J type records. The operational result data derived from the OPREP system in the B type records is of questionable quality because the OPREP's are generally derived from the first reports of an action. Generally speaking, friendly losses tend to be understated and enemy losses exaggerated. Although the OPREP system provides for subsequent corrections to previous reports, it is understood that corrections have not often been the case for the SEAPRS B type records. While J type records lacked data for numbers of Small Unit Operations, for example, extracts from the SEER reports in the J type records were understood to be more reliable than B records for Enemy and Friendly Killed in Action Data. The fact that SEER files have more detailed data than SEAPRS files and may be used to build redundancy in defining concepts also induced a decision to work with SEER data from the parent files, AMFSA and AMFESMA. These two files contain monthly unit data for battalions, squadrons, regiments, groups, and divisions. The AMFSA file is derived from SEER reports during 1968. It consists of 11 monthly observations organized into one fixed and six periodic data sets as follows:

- FIXED SET - Nine variables for personnel and location data.

- PERIODIC SET 1 - Four variables for duration, type, location, and force ratio in six subsets representing the six categories of mission:

  (1) Combat-nonpacification
  (2) Security- nonpacification
  (3) Active pacification
  (4) Static pacification
  (5) Reserve
  (6) Training or rehabilitation

- PERIODIC SET 2 - One variable for the number of operations in eleven subsets representing various mixes of forces in combined/joint operations (e.g., PF/ARVN, RF/ARVN, ARVN/RF/PF, ARVN/US/FW, ARVN/FW, ARVN/US, ABN/ARVN, VNMC/ARVN, ABN/US, VNMC/US or FW, and ABN/RF or PF).

- PERIODIC SET 3 - One variable for the number of enemy killed in seven subsets representing various causes (e.g., Mines/Booby Traps, Artillery/Mortar, Air Strikes, Firefight, Sniper Fire, Ambush, and Unknown).

- PERIODIC SET 4 - One variable for the number of friendly killed in seven subsets representing various causes (e.g., Mines/Booby Traps, Artillery/ Mortar, Misdirected Friendly Air or Artillery, Firefight, Sniper Fire, Ambush and Unknown).

- PERIODIC SET 5 - One variable for friendly operations data organized in 150 possible subsets representing mission size and type, control and participation, mission days, contacts, day or night, and enemy or friendly losses.

- PERIODIC SET 6 - One variable for enemy incident data organized in 144 possible subsets representing friendly mission type, number and type of incidents, day or night, and enemy or friendly losses.

The AMFESMA file is derived from SEER reports during 1969 and 1970. It is organized into one fixed and 14 periodic sets as follows:

- FIXED SET - Thirty-five variables for personnel, attachment, and location data.

- PERIODIC SET 1 - Two subsets of 13 possible variables for numbers of enemy and friendly killed in action by various causes. Seven of the variables apply to each subset, giving 14 KIA by cause variables compatible to the 1968 SEER data.

- PERIODIC SET 2 - 35 possible subsets of ten variables representing mission type, start and end dates, duration, location, and command headquarters for six mission types comparable to those used in the 1968 SEER data. Although several mission type codes are available for each mission type to allow coding of more than one mission of each type during the month, duplicate codes are used and are a possible source of error unless they are expected. For example, the codes A through G are for combat-nonpacification, but a unit will often be coded with two A's and an E in a month instead of the expected A, B, and C.

- PERIODIC SET 3 - Five subsets of 11 variables representing five types of enemy-initiated incidents and day or night numbers of incidents, day or night friendly and enemy casualties, and other loss data.

- PERIODIC SET 4 - Three subsets of 33 variables representing three sources of combat support and 11 categories of combat support requested and received (e.g., artillery missions and rounds fired, naval gunfire missions and rounds fired, helicopter gunship missions and sorties, fixed-wing gunship missions and sorties, tactical air missions and sorties, helicopter lift missions and sorties, fixed-wing lift missions and sorties, mid-evac missions and sorties, air resupply missions and sorties, B-52 missions, firefly missions, and illumination missions).

- PERIODIC SET 5 - 25 possible subsets of 16 variables for friendly operations data. The subsets indicate operation size, duration, mission type, and day or night for short operations. The variables include the usual friendly and enemy casualties, weapons lost or captured, and mission days data for sustained operations plus food and ammunition cache and VCI data.

- PERIODIC SET 6 - 15 possible subsets of 28 variables for friendly security operations data. The subsets represent 15 categories of objects defended or defensive missions. The variables include the size and duration of effort, number of fixed posts and patrols, number of various other active defensive activities, number of various enemy day or night incidents, day or night friendly and enemy losses, and damage suffered.

- PERIODIC SET 7 - Four possible subsets of 18 variables for combat support and combined/joint operations data. The subsets represent four mission types. The variables include five categories of combat support requested or received, six categories of short or long-day or night combined/joint operations and friendly or enemy casualties.

- PERIODIC SET 8 - 11 possible subsets of 26 variables, for contact data. The subsets represent large or small unit operations for the six or seven basic mission types. The variables include mission days on short or sustained operations; numbers of contacts by size of enemy force, day or night, and short or sustained operation category; and the hours of contact by size of enemy force and category of operation length.

- PERIODIC SET 9 - Three possible subsets of 14 variables for artillery unit employment data. This set was not examined in detail since the project is not concerned with artillery unit performance at this time.

- PERIODIC SET 10 - Three possible subsets of 11 variables for the time, extent and users of ARVN artillery unit support. This data set was not examined in detail since the project is not concerned with artillery unit performance at this time.

- PERIODIC SET 11 - Three possible subsets of 15 variables for the number of artillery mission requests and requests filled for various supported units by US, ARVN, or 3rd Country artillery units. This data set was not examined in detail since the project is not concerned with artillery unit performance at this time.

. PERIODIC SET 12 - Three possible subsets of 15 variables for reasons why artillery missions requests were not filled. This data set was not examined in detail since the project is not concerned with artillery unit performance at this time.

. PERIODIC SET 13 - Three possible subsets of 21 variables for various categories of damage inflicted by category of unit supported by US, ARVN, or 3rd Country artillery units. This data set was not examined in detail since the project is not concerned with artillery unit performance at this time.

. PERIODIC SET 14 - Four possible subsets of 15 variables for combined/ joint operations data. The subsets represent mission types. The variables include mission day, friendly killed, and enemy killed in five categories of combined/joint operations (e.g., ARVN/US, ARVN/FW, ARVN/ RF/PF, ARVN/VNMC, and ARVN/VNN).

The original intention was to use only the 1969-1970 SEER data for a number of reasons. If this were done, the very complicated task of constructing a consistent time series over the 1968-1970 time frame would be avoided. If the analysis dealt with only the period July 1969 through December 1970, the problem of the change in HES reporting would also be avoided. The 1969-1970 SEER data contains the greatest detail on mission type, duration, location, size, contact, and results. Therefore, the 1969-1970 SEER data (AMFESMA file) was the first to be given a gross screening for numbers of records in each set and subset. It was later determined that the importance of events following the 1968 enemy Tet offensive and the accelerated pacification campaign made it desirable to project the time frame of analysis as far back as possible. For this reason, the form of the final merged 1968 and 1969-1970 SEER data is probably slightly different than if the 1968 data had been screened first.

In the 1969-1970 data, periodic sets 9, 10, 11, 12, and 13 were set aside immediately because they concerned only artillery unit activity. Periodic set 6 was not used because it covered only 1969. Periodic set 7 was not used because it contains either no data or only three months of data prior to the information included in periodic set 4. In the remaining periodic sets, aggregation of subsets or variables was performed to decrease the number of zero observations. The general guidelines used in these aggregations were as follows:

. MISSION TYPE - Sum combat-nonpacification and active pacification to obtain offensive missions, mission days, or results. Sum security- nonpacification and static pacification to obtain defensive mission effort and results. Sum training and rehabilitation. Drop reserve mission time except to account for unit utilization.

- COMBAT SUPPORT - Aggregate the sources on the assumption that this analysis is concerned with the amount of support received and not with the definition of forces that supplied it.

- DAY-NIGHT - Retain this distinction where possible.

- SHORT-SUSTAINED - Retain this distinction where possible.

- SMALL-LARGE UNITS - Retain this distinction where possible.

- CONTACTS - Retain the distinction between contact with enemy platoons, companies, or battalions as well as the mission type and size; but aggregate mission duration and day and night for numbers of contacts. Retain the distinction between day and night as well as the mission type and size; but aggregate mission duration and convert to platoon equivalents for aggregating contact hours. The conversion assumes that one hour of battalion size contact equals nine platoon-size contact-hours and a company contact-hour equals three platoon contact-hours.

- UNITS OF ANALYSIS - Retain only battalions and squadrons of infantry, airborne, armor, marines, and rangers.

The result of this aggregation activity was a defined file for 188 battalions and squadrons containing 24 observations of 224 variables. See Appendix B for a detailed variable list.
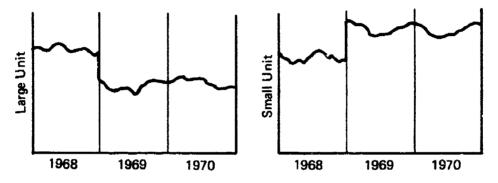
When it was decided that data from 1968 must also be included in the ARVN/VNMC operations dataset sued in the analysis, a defined file was constructed from the AMFSA file using the same guidelines for aggregation applied to 1969-1970 SEER data. This file contained 11 observations of 180 variables for 178 battalions and squadrons. The enemy-initiated incident data of periodic set 6 was not included because it was determined that the SEAPRS H type records contain the most reliable enemy incident data. See Appendix C for a detailed variable list for the 1968 SEER data. Both the 1968 and 1969-1970 SEER data sets were then carefully studied in an effort to obtain the best possible equivalent or at least similar aggregations in the two files. The result was 68 variables, most of which are consistent over the entire time frame. Exceptions are:

- Personnel strength is not included in 1968 data. The information as of January 1969 may be assumed to be valid for purposes of estimating ARVN/VNMC assigned strength in 1968 when aggregating the unit data to the province level.
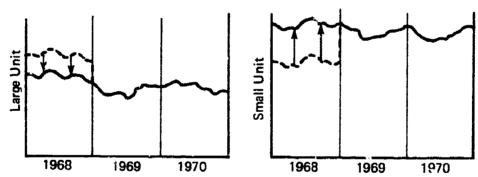
The definition of small and large unit operations are different between the 1968 and 1969-1970 SEER files. In 1968, large unit operations are those of company size or larger and there are two categories of small operations: platoon or greater, but less than company and less than platoon. The 1969-1970 definitions are not explicit; however, large units in most other data examined have been defined as battalion size or larger. If this is true for the 1969-1970 SEER data, there will be a discontinuity caused by the presence of company size (less than battalion size) operations in the 1968 data in large unit data when it should be in small unit data. A potential remedy is to shift some of the large unit data to small unit data based on the characteristics of the discontinuity. For example, a plot of large and small unit battalion days might show the following situation:



In this case, the variation might be retained by simply adjusting the mean value for 1968 as follows:

- There was no contact hour data for 1968. Again this could be estimated on the basis of 1969-1970 average contact duration and 1968 numbers of contacts.
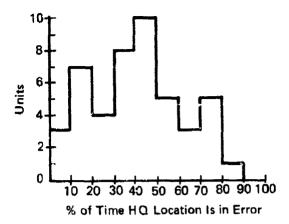
- Enemy killed, captured, or surrendered are aggregated as enemy eliminated; however, 1968 data does not include VCI killed or captured, as a separate category.

- Friendly killed, wounded, captured, or missing are aggregated as friendly casualties. The 1968 data does not include friendly wounded. Since killed and wounded generally correlate highly with each other, any discontinuity can safely be removed by raising the 1968 mean values.

- Joint operations data for 1968 includes only the categories ARVN/US, ARVN/FW, ARVN/RF, and ARVN/VNMC.

See Appendix D for a detailed list of the merged 1968 and 1969-1970 variable aggregations and the resultant variable list.

Examination of the SEER variable lists shows that they contain no information on unit location. A separate file containing unit location, months the unit commander has been assigned, unit commanders' years of service, and other advisor data and ratings was to be constructed. This file would be used in evaluating unit performance as well as in aggregating the unit data to province level. However, it was noted that location data for individual operations was also available in the SEER files as opposed to the unit headquarter locations at month's end. It was decided to compare these two locations to see how much units moved from province to province and to determine if any error would be introduced in province data by using only the headquarter locations. A sample of 46 units for the amount of time spent outside the province indicated by the headquarter locations produced the following results:

% of Time HQ Location Is in Error

Coping satisfactorily with this source of error in province aggregations of ARVN/VNMC (SEER) data was more difficult than uncovering the problem. It was deemed reasonable to assume that data on the effects of combat (contacts, casualties, and damage) is proportional to the number of days of such effort in each province. It then followed that if a unit spent ten days on offense in one province and ten days on offense in another province, then half the results of such operations could be allocated to each province. Of course, there was a threat of error involved in making such an assumption since the probability of contact is unlikely to be equal for all provinces but, despite this danger, it was estimated to be a relatively minor risk when compared with the threat of error involved in making no such attempt to correct for changes in unit location. This assumption only applied to data categorized by mission type or data independent of mission type (e.g., strength). Another assumption had to be made to the effect that the ratio of the results of offensive-to-defensive missions would also be valid for the results of operations not categorized by mission type (e.g., Killed In Action By Cause). Thus, it was possible to use the number of days spent on offensive, defensive, and training/ rehabilitation missions in each province together with ratios of the results of offensive to defensive operations to transform the basic unit data for aggregation by province (See Appendix E for detailed description of the transformation rules). Some difficulty was still encountered when location codes of 000 were found or when a unit was found to spend 57 days on combat operations in one month. These coding errors had to be corrected during the transformation process when constructing the province file, and decisions had to be made to solve specific problems.

# SECTION 5

# HAMLET EVALUATION SYSTEM (HES) DATA SETS

The HES evolved out of a need to measure "results" or "progress" in a political-military conflict in which most traditional indicators were found to be misleading, meaningless, or irrelevant. In mid-1969, the HES was revised to make it less susceptible to systematic bias and it has served as a measure of the expenditure of resources, effort, and coercive power by the GVN and the enemy as reported by field officers. The HES measures a large variety of socio-economic and military-political phenomena and is probably the most useful gauge of a type of GVN control available to analysts.

## HES VARIABLES IN THE SEAPRS DATASET

To use the HES data in the analyses, two basic questions required resolution. The first involved a decision concerning which of the 24 and 18 variables reported in the SEAPRS data for the two (old and new) versions of HES were to be used. The second involved adjusting the discontinuity in the HES data caused by mid-1969 revision of the reporting system.

## SELECTION OF SEAPRS HES VARIABLES

There are three basic categories of SEAPRS HES variables; (1) the population figures represent either rural or total population living in hamlets, rated according to the different scores on the HES models; (2) the HES models represent a condition of pacification or security; (3) within each model, the variables represent four different aggregations of scores for the hamlets: AB, ABC, DE/OTHER, and VC.

Because this study was concerned with the rural population and its security, a decision was made to use rural rather than total population in the various security categories. In examining the data, a rural to urban population shift was noted as an important factor contributing to the improvement in security scores. To monitor this trend and to describe different areas in terms of this phenomenon, a new variable, percent rural population, was created. In this process, a new problem was discovered, for, in trying to obtain an accurate measure of the non-hamlet population, it was clear that the figures on this population were reported differently in each version of the HES data contained in the SEAPRS file. Examination of the figures on non-hamlet population revealed that this population was largely associated with the process of urbanization. The highly urbanized province of Gia Dinh, for example, accounted for nearly all of the non-hamlet population III Corps. Since the discrepancy in counting non-hamlet population in the two versions

of HES only affected the total population figures, since this discrepancy could not be easily resolved, and since the focus of this study was concerned with the rural population, a decision was made to use the security scores for the rural population and the percentage of rural population as population variables in this study.

In selecting measures of rural security, there were six different candidates from which to choose: the AB, ABC, DE and Other, the VC HES security model scores, and the two VSSG control scores. These measures were all, as expected, highly correlated, since they are substantively related measures of the same phenomenon. The ABC security score was not used because the "C" category, after inspection of the data, seemed to be a "catch-all" category lying midway between security and insecurity and often blurring variance at the province level. The selection of the VSSG GVN Control Score over the rural AB Security Score was made after examination of a plot of both scores on a percent dimension over a 48-month period for the 12 VSSG sample provinces and a SVN-wide summary. In general, the VSSG Control Score was lower than the AB score (See Figure 5-1A) although, in some provinces, the scores change their relative positions, causing the plotted lines to cross one another (See Figure 5-1B). In one case, the AB score and the VSSG score exchanged relative positions in both the old HES and in the new HES. (See Figure 5-1C.) Since the VSSG GVN Control Score demonstrated more variation over time, indicating more sensitivity to changing conditions, it was selected as a more suitable measure of population control.

In devising these measures, another population variable, contested population, was created by subtracting the sum of the population included under the VSSG GVN and VC Control Scores from the total rural population. This variable was usefully employed in this study. (See Figure 5-2.)

The second task, that of merging the two HES system scores, also posed a serious problem. Two methods of merging the scores were tested. The first effort was based on the correlation between the old and new HES ratings for the six-month period during which they were employed simultaneously. The difference in the slope of the old HES score and the HES/70 score was applied to the old HES score and projected back to $T_1$. This method proved unsatisfactory when many scores, including population levels, decreased disproportionately near the beginning of the time period.

The method which proved satisfactory was based on the assumption that the old HES data at $T_1$ and HES/70 at $T_{33}$ were reasonably accurate and that the difference between the old HES and HES/70 at $T_{33}$ represents an error incrementally induced into the old HES over time. One can readily picture how the second method merges the two lines if one imagines the old HES line to be hinged at $T_1$. The line is then simply adjusted to meet HES/70 at $T_{33}$. This method distributes the amount of the
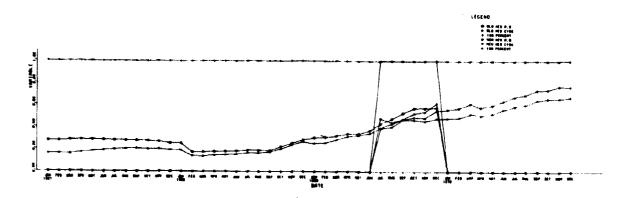
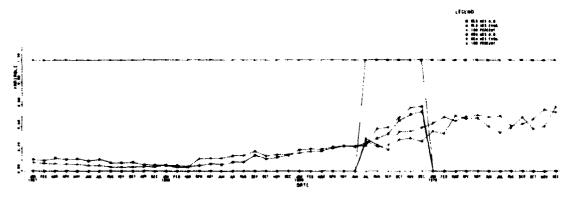Figure 5-1A  South Vietnam



Figure 5-1B  Chuong Thien
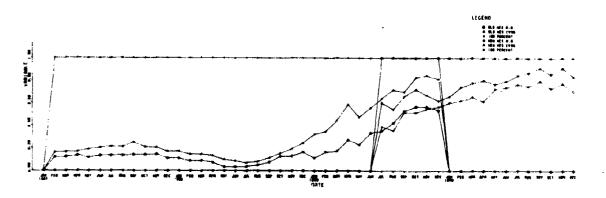


Figure 5-1C  Binh Duong

Figure 5-1  GVN Control Ratings
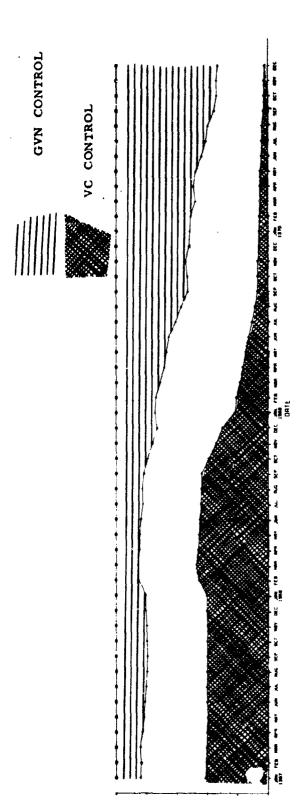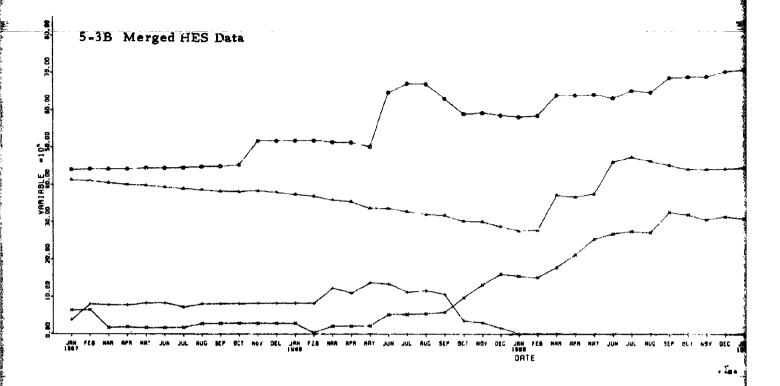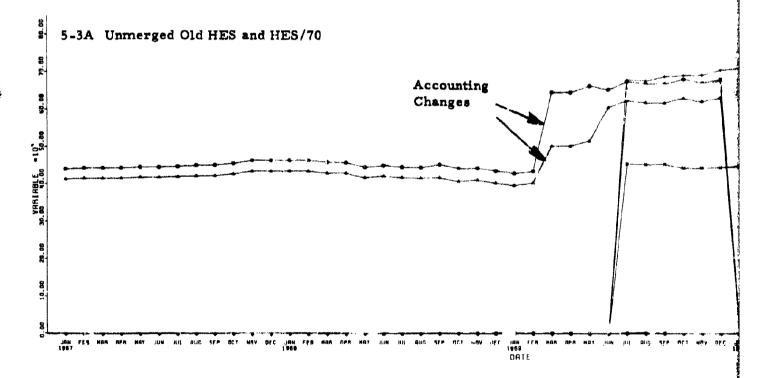
Figure 5-2 Population Ratings, South Vietnam

adjustment in decreasing increments from $T_{33}$ to $T_1$, thus applying the greatest amount of adjustment in the most recent period of old HES where the greatest error was suspected. By comparing Figures 5-3A, 5-4A, 5-5A, and 5-6A (old HES and HES/70 unmerged) with Figures 5-3B, 5-4B, 5-5B, and 5-6B (merged HES), one can visually inspect the effect of the merge program.

This method worked well in nearly all cases, the exception being those in which very large differences in the two HES scores at $T_{33}$ occurred very sharply and very near to $T_{33}$ (See Figures 5-3A and 5-3B). In this instance, alternative merging was applied. Locating cases in which either error or dramatic real shifts in HES scores occur (See Figures 5-4A, 5-4B, 5-5A, and 5-5B) proved to be the primary payoff for the extensive plotting of the HES population and security scores. These errors, accounting modifications (See Figures 5-6A and 5-6B), and/or real shifts in the data had to be located and accounted for when, because of such inconsistencies, standard statistical operation failed to describe or suggest rules for merging the two HES systems.

5-3B Merged HES Data

5-3A Unmerged Old HES and HES/70

Accounting
Changes

LEGEND

⊕ TOTAL POPULATION
▲ TOTAL RURAL
+ VC CONTROL
✕ GVN CONTROL

NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1969 1970

DATE

LEGEND

⊕ OLD TOT PAC
▲ OLD RURAL TOT
+ NEW TOT PAC
✕ NEW RURAL TOT

NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1969 1970

DATE

Figure 5-3  Population Ratings,
Thua Thien

5-4B  Merged HES Data



5-4A  Unmerged Old HES and HES/70

LEGEND

O TOTAL POPULATION
▲ TOTAL RURAL
+ VC CONTROL
X GVN CONTROL

NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1969 1970

DATE

LEGEND

● OLD TOT PAC
▲ OLD RURAL TOT
+ NEW TOT PAC
X NEW RURAL TOT

NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1969 1970

DATE

Figure 5-4  Population Ratings,
Binh Duong

5-5B Merged HES Data

5-5A Unmerged Old HES and HES/70

Accounting/Error Induced Change
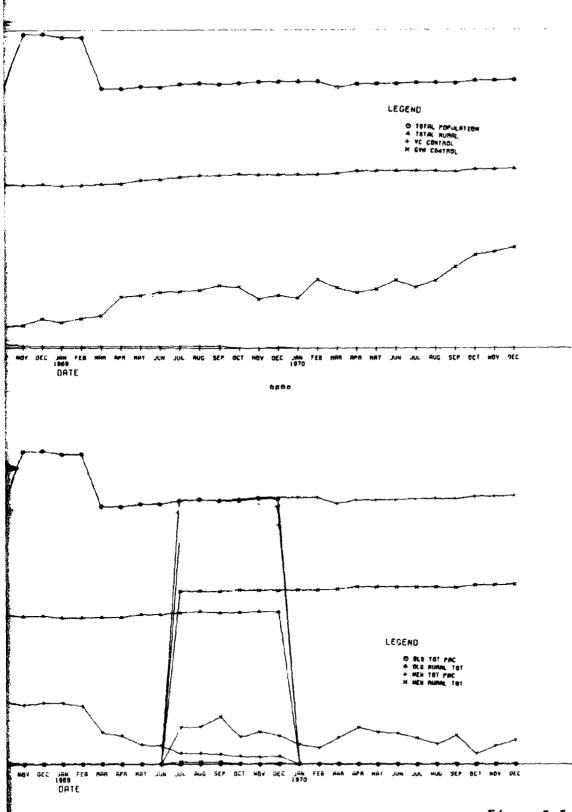
Figure 5-5  Population Ratings,
Bien Thuan

## 5-5B  Merged HES Data



Accounting Change

## 5-6A  Unmerged Old HES and HES/70

LEGEND

⊙ TOTAL POPULATION
▲ TOTAL RURAL
+ VC CONTROL
× GVN CONTROL

OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC
1969                                                    1970
DATE

LEGEND

⊙ OLD TOT PAC
▲ OLD RURAL TOT
+ NEW TOT PAC
× NEW RURAL TOT

OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC
1969                                                    1970
DATE
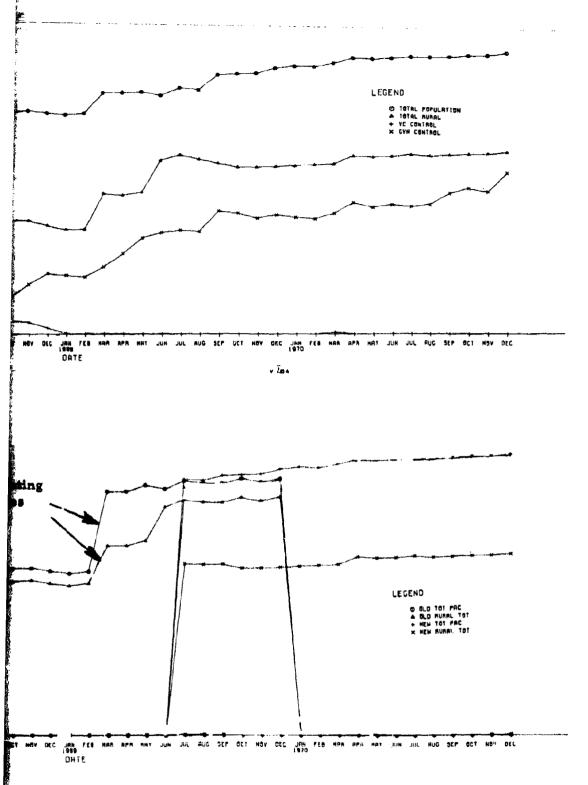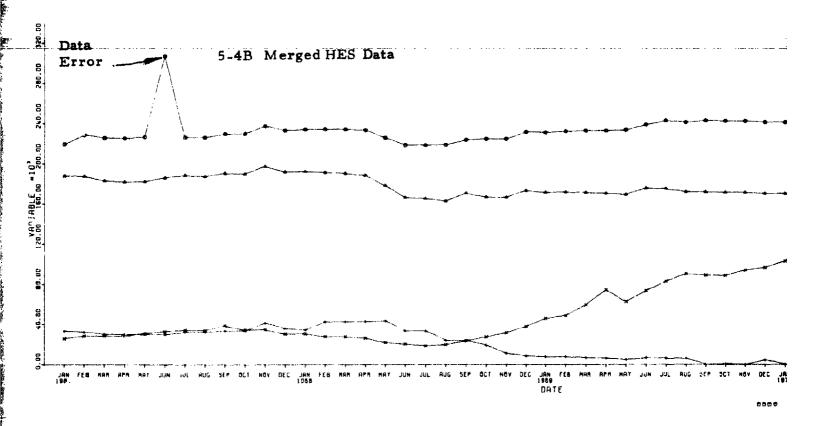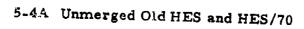
Figure 5-6  Population Ratings,
CTZ3

QHES 70 FILE

The data files previously described (SEAPRS, SEER, and TFES) contain a large number of variables which measure various categories of friendly and enemy military resources, activity, and direct results of this activity, as well as the indirect results as indicated by the several HES score population variables (in the SEAPRS) describing changes in population behavior; i.e., the number of people who have come under different degrees of GVN control. The QHES 70 File and its subsequent files for 1971 and 1972 provide a variety of data which serve as a finer measure of population behavior; data on friendly and enemy political and economic activity, on the cultural and economic setting, on various environmental factors, and on the participation of the population in various activities in various settings.

As received, the QHES dataset included 398 variables as responses to 77 questions (See Appendix F). A screening of these variables for missing data or excessive zero obser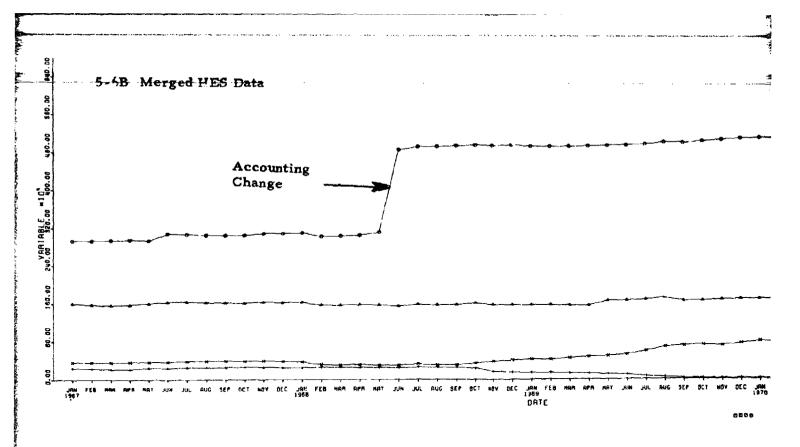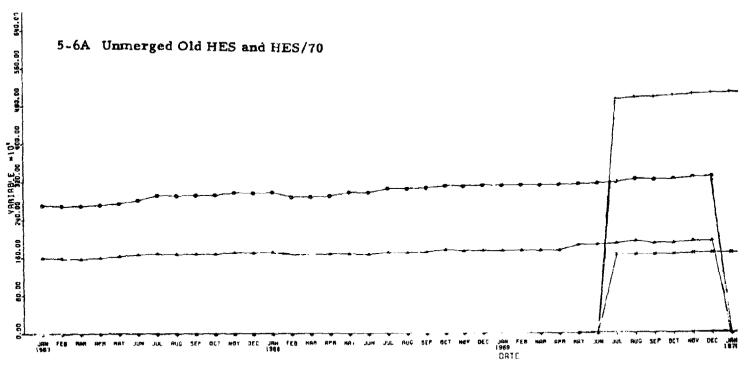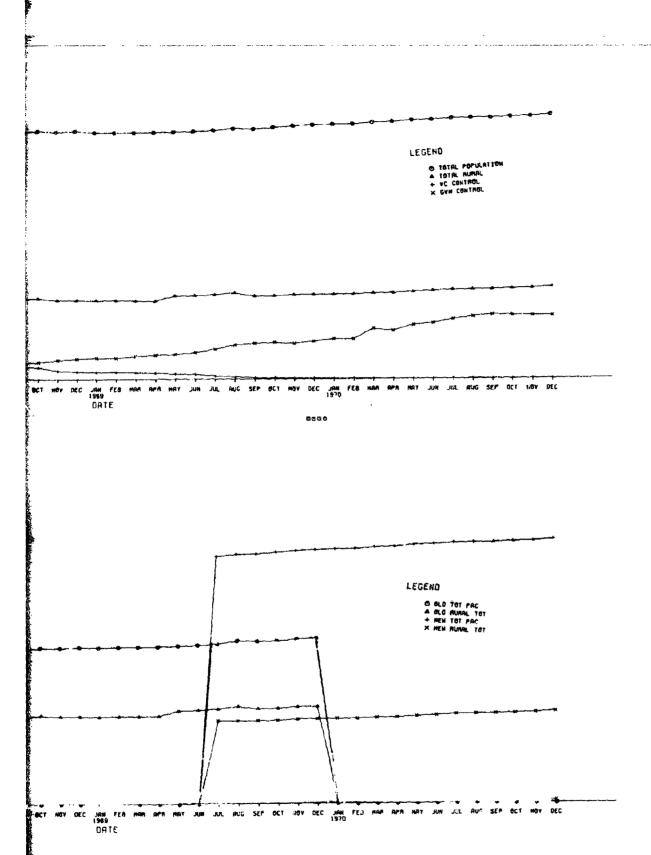vations revealed no serious problems. To create a manageable working file of about 400 variables for 44 provinces on a monthly basis, the variables were combined and indices were created in two ways. For HES questions, where the responses were based on an ordinal scale, an aggregate score was calculated. An example of this procedure is illustrated below for Question HMD2, "Damage Level Due to Enemy Military Activities." The following data apply to Quang Tri Province for July 1970.

| | Data | | Calculation |
|---|---|---|---|
| HMD2-0 = No damage | 279, 2 | x 1 = | 279, 642 |
| HMD2-1 = Minor damage | 1' 30 | x 2 = | 38, 860 |
| HMD2-2 = Serious, localized damage | 3, | x 3 = | 11, 604 |
| HMD2-3 = Widespread damage | | x 4 = | 0 |
| | 302, 940 | | 330, 106 |
| | | Province Score = | 1.1 |

Another example of this procedure, where there is an ordinal scale of increasing frequency for the event, is listed below for Quang Tri in July 1970.

| | Data | | Calculation |
|---|---|---|---|
| HMB4-0 = No armed enemy presence | 257, 563 | x 1 = | 257, 563 |
| HMB4-1 = One appearance | 31, 290 | x 2 = | 62, 580 |
| HMB4-2 = Sporadic appearances | 14, 087 | x 3 = | 42, 261 |
| HMB4-3 = Regular visits | 0 | x 4 = | 0 |
| | 302, 940 | | 362, 404 |
| | | Province Score = | 1.2 |

It was possible to treat each response separately or to create a province score and it was possible to treat the province scores as separate variables or to combine scores, for example, on a scale of GVN-VC influence. In the example illustrated below, questions HQF6 and HQB3 concern the level of popular participation in GVN and VC non-military group activities on ordinal scales of 0-4. By weighting the responses according to the following procedure, a composite province score was created as a means of rating that province on a popular allegiance scale.

| Participate in VC Activities | Data | | Calculation | |
|---|---|---|---|---|
| HQB3-4 = Nearly all | 0 | x | 1 = | 0 |
| HQB3-3 = 41-90% | 0 | x | 2 = | 0 |
| HQB3-2 = 10-40% | 0 | x | 3 = | 0 |
| HQB3-1 = <10% | 15,247 | x | 4 = | 60,988 |
| HQB3-0 = None | 287,693 | x | 5 = | 1,438,465 |
| HQF6-0 = None | 58,691 | x | 6 = | 352,146 |
| HQF6-1 = <10% | 186,042 | x | 7 = | 1,302,294 |
| HQF6-2 = 10-40% | 50,289 | x | 8 = | 402,312 |
| HQF6-3 = 41-90% | 7,918 | x | 9 = | 71,262 |
| HQF6-4 = Nearly all | 0 | x | 10 = | 0 |
| Participate in GVN Activities | 605,880 | | | 3,627,467 |
| | Province Score | | = | 6.0 |

An alternative scaling procedure based on a zero sum proposition would enable analysis using the VC participation and GVN participation data either separately or combined for construction of a political behavior index.
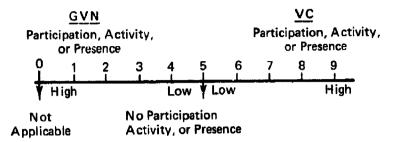
| | | | Data | Calculation | |
|---|---|---|---|---|---|
| HQB3-0 | = | None | 287,693 | x 5 = | 1,438,465 |
| HQB3-1 | = | <10% | 15,247 | x 6 | 91,482 |
| HQB3-2 | = | 10-40% | 0 | x 7 | 0 |
| HQB3-3 | = | 41-90% | 0 | x 8 | 0 |
| HQB3-4 | = | Nearly all | 0 | x 9 | 0 |
| | | | 302,940 | | 1,529,947 |

Province VC Participation Score = 5.1
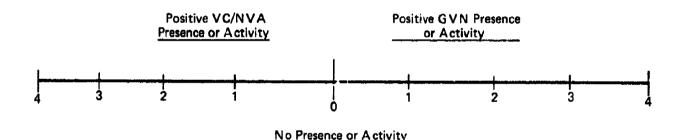
| | | | Data | Calculation | |
|---|---|---|---|---|---|
| HQF6-0 | = | None | 58,691 | x 5 = | 293,455 |
| HQF6-1 | = | <10% | 186,042 | x 4 | 744,168 |
| HQF6-2 | = | 10-40% | 50,289 | x 3 | 150,867 |
| HQF6-3 | = | 41-90% | 7,918 | x 2 | 15,836 |
| HQF6-4 | = | Nearly all | 0 | x 1 | 0 |
| | | | 302,940 | | 1,204,326 |

Province GVN Participation Score = 4.0

This scaling procedure was used to place most of the ordinal QHES70 variables on comparable dimensions for index construction. The scale extends from zero for not applicable responses, to one for perfect participation in GVN activities, to five signifying no participation with either party, to nine for perfect participation in VC activities.



When it came to time series analyses of Village Program questions, it was less confusing, in interpreting correlations of VC and GVN data, to scale questions defining their characteristics separately rather than in combination, and on a zero-to-four scale as described above. The scale extends from zero, as the worst extreme for the GVN, to four as the best extreme, except for the VC Political Influence which reverses the scale.



The weighting and scaling procedures for scoring the responses on a zero-to-four dimension are illustrated above.

## HES INDEX CONSTRUCTION

After some preliminary investigation of the HES data collection procedure, discussions with officials familiar with HES, review of the available documentation on HES, screening of the actual data and intuitive organization of the variables in terms of their substantive meaning in our research design, 288 variable-responses to 72 HES questions were selected in creating ten indices defining theoretically relevant concepts in a Coercive Action/Political Influence (CA/PI) file. (See Appendix G for the HES variables, calculations, and indices created for that file.) Factor analysis of these variable-responses was also employed in verifying their initial organization.

In addition to the above Coercive Action/Political Influence file, an additional file, employing 300 variable-responses on 77 questions/topics from HES, SEAPRS, TFES, and SEER datasets, was also created. The additional file included 14 indexed variables. (See Appendix H for a list of the variables, their weights, and the indices in which they were placed.)

As data for 1971 and 1972 was received, it was processed and added to the appropriate files.

SECTION 6

PACIFICATION ATTITUDE ANALYSIS SYSTEM (PAAS)

PAAS attempts to portray rural South Vietnamese attitudes toward security, politics, and economic development. The PAAS was developed by the Pacification Studies Group of CORDS at MAC V and the Central Pacification and Development Council of the GVN.

Monthly PAAS data, from January 1970 on, includes two types of information: (1) trends on shifts in rural opinion and (2) rural reactions to specific events. To reveal trends, the same series of questions are repeated regularly in monthly surveys; to identify reactions to specific events, questions on particular topical issues are included in the regular surveys.

DATA COLLECTION

The system is based on semi-structured interviews conducted by trained SVN research cadres in rural areas of 30 to 33 provinces. In a typical monthly survey, three, three-man, survey teams per province are assigned to specific hamlets where they conduct interviews. The interviewers memorize the survey questions and, guided by pre-established criteria, select respondents. Survey questions are posed indirectly in the course of conversation and the replies of the respondent are coded in predetermined categories.

SAMPLING PROCEDURES

PAAS employs a quota rather than a probability sampling technique in selecting both individual respondents and hamlets.

SAMPLE SIZE

Over 3,000 respondents have been interviewed country-wide during a survey month but, generally, only 30 persons per province are interviewed.

USE OF THE DATA

To make best use of PAAS data, analysts in this study carefully reviewed all PAAS questions, selected those judged most relevant to the concepts analyzed in this study, and employed them in several reports. The questions were:
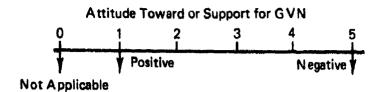
- The Village Program Report employed PAAS questions 101, 111, 147, 227/284. Responses were simply dichotomized on a "favorable-unfavorable" dimension.

- The War Type Analysis employed questions 73, 101, 142, 147, 201 and 205. Responses were dichotomized on a "favorable-unfavorable" dimension.

- The Land Reform Paper employed PAAS responses indicating popular attitudes toward administration of the land-to-the-tiller law. These responses served as the basis for ranking provinces and analyzing differently-ranked provinces in relation to key HES variables.

PAAS data was also subjected to the scaling techniques employed in the HES data. In this effort, popular attitudes derived from PAAS data were organized under three topic headings, each with two subheadings, as follows:

- SECURITY

    - Level of Concern for Present Conditions
      (Five questions with 23 possible responses)

    - Evaluation of GVN Ability to Provide Security
      (Eight questions with 55 possible responses)

- POLITICAL IDENTIFICATION
  (Cognitive and affective responses to GVN)

    - Local
      (Nine questions with 54 possible responses)

    - National
      (Three questions with 14 possible responses)

- EXPECTATIONS
  (For political and economic power of GVN)

    - Future Political Situation
      (Three questions with 20 possible responses)

    - Future Economic Conditions
      (Four questions with 27 possible responses)

The recommended scales extend from zero for Not applicable, through one for high positive feelings for GVN, to five for high negative responses.

Attitude Toward or Support for GVN



The responses Did not know and Did not wish to respond were considered zero or five, depending on the subject matter of the questions. For example, the response of Not knowing who represents the GVN locally would be weighted five, while not having an opinion on what the most serious problem is would be weighted zero. If data screening disclosed a large percentage of Did not know or Did not wish to respond, then the data on individual responses would be of substantive interest without scaling. Useful inferences could be made from lack of feeling in any direction and unwillingness to reply.

Some examples of the scales and hypothetical response data are shown below:

PAAS QUESTION

GVN Ability to Assist People in the Future

| Response | Data | Calculation |
|---|---|---|
| Increased | 38% | x  1 =  38 |
| Same | 40% | x  3 = 120 |
| Decreased | 12% | x  5 =  60 |
| Did not know | 2% | x  0 =  0 |
| Did not respond | 8% | x  0 =  0 |
| | 100% | 218 |

Province Score = 2.18

PAAS QUESTION

Is Hamlet Defortification Possible?

| Response | Data | Calculation |
|----------|------|-------------|
| No | 15% | x 5 = 75 |
| Some | 15% | x 4 = 60 |
| Many | 5% | x 3 = 15 |
| Most | 5% | x 2 = 10 |
| All or nearly all | 2% | x 1 = 2 |
| Did not know | 30% | x 0 = 0 |
| Did not respond | 28% | x 0 = 0 |
| | 100% | 162 |

Option A Province Score = 1.62

42 | 162

Option B Province Score = 3.95

Should the data indicate the pattern of responses in the second hypothetical example, option B-based only respondents indicating an attitude will be the most accurate index. The data on the latter two responses should also be studied as separate variables.

In the original research design, PAAS data was intended to provide the attitudinal dimension that would further enrich and structure the image of the political, military, and socio-economic environments drawn by other data sources. To this end, several particularly relevant PAAS variables were selectively employed in specific analyses. However, the availability of data from HES and other files and the particular relevance of that data to research demands arising in the course of this study did not permit as thorough an exploration and employment of PAAS data as expected.

APPENDIX A

CONCEPT INDEX VARIABLE CANDIDATES

In the introduction to this paper, it was pointed out that this analysis of the Vietnam War has aimed at identifying and interpreting the statistical relationship among the following concepts:

- GVN, US, and 3rd Country resources

- GVN, US, and 3rd Country military activities

- VC and NVA resources

- VC and NVA military activities

- GVN political and economic activities

- VC and NVA political and economic activities

- Cultural and economic factors

- Other environmental factors

- Popular attitudes

- Political behavior

To accomplish this task, it was necessary to review available data files to select the variables that were of substantive interest; i. e., those that defined one or more of the ten concepts listed above; and to obtain variables which had a sufficient number of observations for reliable use over time and space. To that end, the SEAPRS, SEER, TFES, QHES, and PASS data files were screened for missing data, excessive zero observations, or other causes of low amounts of variance and the following variable list was created of whatever variables remained as candidate indications of the concepts listed above. These variables are listed by data source and under the particular concept, of the ten concepts studied, which it most appropriately defines.

In addition to the listing of these variables by data source, five columns of information about each variable are provided.

The first column indicates the extent of missing data in the 1967-1970 period; i.e., months 1-48. Here, M denotes Month and P denotes Province. Thus, the entry "M 1-13; M 14, P 1-5" indicates that the data is missing for months 1 through 13 (January 1967 until February 1968) and for month 14 (February 1969) in provinces 1 through 5 as the provinces are usually listed in the SEAPRS file.

The second column indicates the extent of missing data in the January 1971 through October 1972 period; i.e., months 49 through 70.

The third column of information tells what percentage of the data which was not missing for months 1-48 has zero as the observed value.

The fourth column of information tells what percentage of the data not missing for months 49-70 has zero as the observed value. [3]

The fifth column shows how each variable has been used in the preliminary stages of the analysis. Here, CD stands for concept definition, with CD1 and CD2 referring to consecutive analyses conducted in the earliest stages of the study. The V describes the sequence number of the variable in the analysis. A second set of analyses, the province cluster profiles described in an earlier report, are indicated by PC1.

It is noted that neither the Old HES nor the HES/70 variables of the SEAPRS data file have been included in the following listing. The variables were omitted not because of oversight or distrust but because they did not help to define any of our basic concepts of interest. The variables were neither a direct outcome of any GVN or VC action nor did they clearly reflect attitudes or behavior. The HES data in the SEAPRS file has not therefore been included here although it has been carefully screened and employed in our preliminary exploration of the data.

Variables from the PAAS dataset have also been excluded from this basic list of variables although they too were carefully evaluated, screened and employed in experimental analyses. The PAAS variables are not listed because they were not directly integrated into our primary research task, partly because of the considerable amount of time required to organize this attitudinal data for what appeared to be quite limited purposes and partly because our increasing research interest in

---

[3] It is interesting to note that the percentage of zeroes in monthly reports on variables describing most military activities and outcomes tends to be high even after considerable aggregation of variables to reduce the extent of zero observations.

and exploration of the behavioral data promised more payoff in terms of immediate research demands. As described earlier in this report, the PAAS data remains an interesting and unique data base on the attitudes of elements of the South Vietnamese population on issues of historic interest.

## CONCEPT INDEX VARIABLE CANDIDATES

Variable List by Concepts and Data Source

1. GVN, US, and 3rd Country Resources

a. GVN Resources:

| | Missing Data | | Percent Zeros | | Variable Use |
|---|---|---|---|---|---|
| | M1-48 | M49-70 | M1-48 | M49-70 | |
| **(1) SEAPRS File** | | | | | |
| (a) 2 = ARVN/VNMC Maneuver Battalions | None | None | 10 | 30 M68-70 | CD1, V1 |
| (b) 266 = ARVN/VNMC Assigned Strength | M1-24 | M49-10 | 10 | None | CD2, V2; PC1, V6, 14,18 |
| (c) 276 = RF Assigned Strength | M1-12, 43-48 | M68-70 | 0 | 20 | CD1, V6&6; |
| (d) 270 = RF Companies | M1-12, 43-48 | M68-70 | 0 | 20 | CD1, V4 |
| (e) 271 = PF Assigned Strength | M1-12, 43-48 | M68-70 | 0 | 40 | CD1, V5&7 |
| (f) 269 = PF Platoons | M1-12, 43-48 | M68-70 | 0 | 20 | CD1, V3 |
| (g) 266 = National Police Field Forces Assigned Strength | M1-26 | None | 5 | 2? | CD1, V8&11; CD2, V8; PC1, V6 |
| (h) 267 = Special Police Assigned Strength | M1-26 | None | 5 | 2? | CD1, V9&11; CD2, V8; PC1, V6 |
| (i) 268 = Other Police Assigned Strength | M1-26 | | 5 | 20 | CD1, V10&11; CD2, V8; PC1, V6 |
| **(2) SEER File (Merged 1968 and 1969-70 Files)** | | | | | |
| (a) 1 = ARVN/VNMC Maneuver Battalions | M1-13; M14, P1-5 | | 5 | | CD2, V17; CD3, V10 |
| (b) 2 = ARVN/VNMC Assigned Strength | M1-13; M14, P1-5 | | 5 | | CD4, V17, CD3, V10 |
| (c) 40 = ARVN/VNMC Desertions/AWOL's | M1-24; 37-48 | | 5 | | |
| **(3) TFES File (Summary File)** | | | | | |
| (a) 1 = RF Rifle Companies | M1-12 | | 0 | | |
| (b) 8 = RF Outposts | M1-12 | | 5 | | |
| (c) 9 = RF Assigned Strength | M1-12 | | 0 | | Pc1, V26; CD2, V56.13 |
| (d) 10 = RF Present for Duty | M1-12 | | 0 | | |
| (e) 14 = PF Platoons | M1-12 | | 0 | | |
| (f) 21 = PF Outposts | M1-12 | | 5 | | |
| (g) 4 = PF Assigned Strength | M1-12 | | 0 | | Pc1, V27; CD2, V56.14 |
| (h) 41 = PF Present for Duty | M1-12 | | 0 | | |
| **(4) QHES 70 Index File** | | | | | |
| (a) 68 = average score (5-1) on PSDF membership HQC6 | M1-30 | | 0 | | |
| (b) 69 = average score (5-1) on PSDF activity level HQC7 | M1-30 | | 0 | | |
| (c) 80 = average score (5-1) GVN service HQF2 | M1-30 | | 0 | | |
| (d) = average score (0-3) national police presence VQD1 | M1-30 | | | | |
| (e) = average score (0-3) national police activity VQD4 | M1-30 | | | | |

Note:
M = Month, P = Province, CD = Concept Definition, V = Variable, PC = Province Cluster

## Variable List by Concepts and Data Source

| Variable List by Concepts and Data Source | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|
| | M1-48 | M49-70 | M1-48 | M49-70 | |
| b. US Resources: | | | | | |
| (1) SEAPRS File | | | | | |
| (a)  1 = US Maneuver Battalions | None | None | 30 | 90 | CD1, V16 |
| (b)  1 = #845 = US Maneuver Strength | None | None | 30 | 90 | CD1, V17 |
| (2) QHES 70 Index File | | | | | |
| (No QHES data related to US resources) | | | | | |
| (1) SEAPRS File | | | | | |
| (a)  3 = 3rd Country Maneuver Battalions | None | None | 85 | 90 | CD1, V16 |
| (b)  3 = #845 (for MR III) = 3rd Country Maneuver Strength | None | None | 85 | 90 | CD1, V17 |
| (c)  3 = #770 (for MR I&II) = 3rd Country Maneuver Strength | None | None | 85 | 90 | CD1, V17 |
| (4) QHES 70 Index File | | | | | |
| (No QHES/70 data related to third country resources) | | | | | |

2. GVN, US, and 3rd Country Military Activities

a. GVN Activity by Mission Type and Force Size for Operations

Variable List by Concept and Data Source

| | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |

**(1) SEER File (Merged 1968 and 1969-70 Files)**

| | | Missing Data | Percent Zero M1-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|
| (a) | 16 = Number of Large Unit Offensive Operations | M1-48 | 15 | M49-70 | |
| (b) | 17 = Number of Large Unit Defensive Operations | M1-13; M14, P1-5 | 25 | | |
| (c) | 18 = Number of Small Unit Offensive Operations | M1-13; M14, P1-5 | 25 | | |
| (d) | 19 = Number of Small Unit Defensive Operations | M1-13; M14, P1-5 | 25 | | |
| (e) | 25 = Mission Days on Large Unit Offensive Operations | M1-18 | 15 | | CD2, V22 |
| (f) | 26 = Mission Days on Large Unit Defensive Operations | M1-18 | 25 | | CD2, V23 |
| (g) | 27 = Mission Days on Small Unit Offensive Operations | M1-13; M14, P1-5 | 25 | | CD2, V24 |
| (h) | 28 = Mission Days on Small Unit Defensive Operations | M1-13; M14, P1-5 | 25 | | CD2, V25 |
| (i) | 49 = Mission Days on Combined ARVN/US Operations | M1-13; 25-27; M14, P1-5 | 70 | | |
| (j) | 52 = Mission Days on Combined ARVN/RF Operations | M1-13; 25-27; M14, P1-5 | 95 | | |
| (k) | 55 = Mission Days on Joint ARVN/RF Operations | M1-13; 25-27; M14, P1-5 | 60 | | CD2, V26 |
| (l) | 58 = Mission Days on Joint ARVN/VNMC Operations | M1-13; 25-27; M14, P1-5 | 95 | | |

**(2) TFFS File (Summary File)**

| | | Missing Data | Percent Zero M1-48 | Variable Use |
|---|---|---|---|---|
| (a) | 2 = RF Rifle Co's Assigned to Village/Hamlet Security | M1-12 | 0 | |
| (b) | 3 = RF Rifle Co's Assigned to LOC Security | M1-12 | 5 | |
| (c) | 4 = RF Rifle Co's Assigned to "Other" Security | M1-12 | 5 | |
| (d) | 5 = RF Rifle Co's Assigned to Offensive Operations | M1-12 | 10 | |
| (e) | 6 = RF Rifle Co's Assigned to Reaction Forces | M1-12 | 50 | |
| (f) | 7 = RF Rifle Co's Assigned to "Other" Missions | M1-12 | 35 | |
| (g) | 15 = PF Platoons Assigned to Village/Hamlet Security | M1-12 | 5 | |
| (h) | 16 = PF Platoons Assigned to LOC Security | M1-12 | 5 | |
| (i) | 17 = PF Platoons Assigned to "Other" Security | M1-12 | 0 | |
| (j) | 18 = PF Platoons Assigned to Offensive Operations | M1-12 | 65 | |
| (k) | 19 = PF Platoons Assigned to Reaction Forces | M1-12 | 80 | |
| (l) | 20 = PF Platoons Assigned to "Other" Missions | M1-12 | 10 | |

**b. GVN Activity by Force Size on Operation**

**(1) SEAPRS File**

| | | Missing Data | Percent Zero M1-48 | M49-70 (Missing) | Percent Zero M49-70 | Variable Use |
|---|---|---|---|---|---|---|
| (a) | 24 = Number of ARVN/VNMC Large Scale Operations with Contact | None | 60 | M58-70 | 75 | PC1, V15, 16&17 |
| (b) | 25 = Number of ARVN/VNMC Small Scale Operations with Contact | None | 70 | M58-70 | 75 | PC1, V17, 24&25 |
| (c) | 26 = Number of RF Large Scale Operations with Contact | None | 80 | M58-70 | 85 | PC1, V15, 17&17 |
| (d) | 27 = Number of RF Small Scale Operations with Contact | None | 65 | M58-70 | 35 | PC1, V17, 24&25 |
| (e) | 29 = Number of PF Small Scale Operations with Contact | M14&15 | 70 | M58-70 | 50 | PC1, V17, 24&25 |
| (f) | 30 = Number of "Other" GVN Large Scale Operations with Contact | None | 70 | M58-70 | 70 | PC1, V15, 16&17 |
| (g) | 31 = Number of "Other" GVN Small Scale Operations with Contact | None | 95 | M58-70 | 97 | PC1, V17, 24&25 |
| (h) | 32 = Number of Unknown GVN Large Scale Operations with Contact | None | 10 | M58-70 | 99 | PC1, V15, 16&17 |
| (i) | 33 = Number of Unknown GVN Small Scale Operations with Contact | M14 | 15 | M58-70 | 90 | PC1, V17, 24&25 |
| (j) | 55 = Battalion Days on GVN Large Scale Operations with Contact | M1-6 | 20 | None | 10 | CD1, V12 |
| (k) | 63 = Number of GVN Large Scale Operations with Contact | None | 10 | None | 15 | |
| (l) | 65 = Battalion Days on GVN Small Scale Operations with Contact | M1-12, 14 | 60 | 25-48, 49-70 | None | CD1, V13; CD2, V7 |
| (m) | 73 = Number of GVN Small Scale Operations with Contact | M14 | 5 | None | 15 | |
| (n) | 260 = Number ; ARVN/VNMC Large Operations | M1-13 | 10 | 49-70 | None | |
| (o) | 461 = Battalion Days on ARVN/VNMC Large Operations | M1-24 | 100 | 49-70 | None | |
| (p) | 465 = Number of PF Operations | M1-12, 43-48 | 0 | M68-70 | 10 | CD1, V14 |
| (r) | 280 = Number of RF Operations | M1-12, 43-48 | 0 | M68-70 | 10 | CD1, V14 |

Variable List ... ... and Data Source

| | | Missing Data | | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|---|
| | | M1-46 | M49-70 | | M1-46 | M49-70 | |

(1) SEER ... (Merged 1966 and 1969-1970 Files)

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) 16-17 = Number of ARVN/VNMC Large Unit Operations | M1-13; M14, P1-5 | | 15 | | |
| (b) 18-19 = Number of ARVN/VNMC Small Unit Operations | M1-13; M14, P1-5 | | 25 | | |
| (c) 25-26 = Mission Days on Large Unit Operations | M1-18 | | 15 | | |
| (d) 27-28 = Mission Days on Small Unit Operations | M1-13; M14, P1-15 | | 25 | | |

(2) TFES File (Summary File)

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) 42-43 = RF Operations | M1-12 | | 5 | | |
| (b) 40-44 = PF Operations | M1-12 | | 0 | | |

c. GVN Activity by Effort During Day or Night

(1) SEER File (Merged 1968 and 1969-1970 File)

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) 29 = Day Plt. Equiv. Hr. of Contact by Large Offensive Ops | M1-13; M14, P1-5 | | 20 | | |
| (b) 31 = Day Plt. Equiv. Hr. of Contact by Large Defensive Ops. | M1-13; M14, P1-5 | | 60 | | |
| (c) 33 = Day Plt. Equiv. Hr. of Contact by Small Offensive Ops. | M1-13; M14, P1-5 | | 60 | | |
| (d) 35 = Day Plt. Equiv. Hr. of Contact by Small Defensive Ops. | M1-13; M14, P1-5 | | 80 | | |
| (e) 30 = Night Plt. Equiv. Hr. of Contact by Large Offensive Ops. | M1-13; M14, P1-5 | | 40 | | |
| (f) 32 = Night Plt. Equiv. Hr. of Contact by Large Defensive Ops | M1-13; M14, P1-5 | | 70 | | |
| (g) 34 = Night Plt. Equiv. Hr. of Contact by Small Offensive Ops | M1-13; M14, P1-5 | | 70 | | |
| (h) 36 = Night Plt. Equiv. Hr. of Contact by Small Defensive Ops | M1-13; M14, P1-5 | | 75 | | |

(2) TFES File (Summary File)

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) 40 = PF Day Operations | M1-12 | | 0 | | |
| (b) 42 = RF Day Operations | M1-12 | | 0 | | |
| (c) 44 = PF Night Operations | M1-12 | | 0 | | |
| (d) 46 = RF Night Operations | M1-12 | | 10 | | |
| (e) 41 = PF Day Operations with Contact | M1-12 | | 5 | | |
| (f) 43 = RF Day Operations with Contact | M1-12 | | 5 | | |
| (g) 45 = PF Night Operations with Contact | M1-12 | | 5 | | |
| (h) 47 = RF Night Operations with Contact | M1-12 | | 5 | | |

(3) SEAPRS File

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) 274 = PF Night Operations | M1-12, 43-48 | M68-70 | 0 | 10 | CDI, V15 |
| (b) 279 = RF Night Operations | M1-12, 43-48 | M68-70 | 0 | 10 | CDI, V15 |
| (c) 275-276 = PF Day Operations | M1-12, 43-48 | M68-70 | 0 | 10 | |
| (d) 280-279 = RF Day Operations | M1-12, 43-48 | M68-70 | 0 | 10 | |

d. GVN Activity by Duration (and Size and Mission Type) of Operations

(The short-sustained distinction was eliminated in constructing a merged SEER file. The 224 variable data set for 1969-1970 will permit analyses which use operation duration as an operational characteristic.)

A-7

| Variable List by Concept and Data Source | Missing Data | | Percent Zeros | | Variable Use |
|---|---|---|---|---|---|
| | M1-48 | M49-70 | M1-48 | M49-70 | |

**e. GVN Activity by Number, Duration and (Size) of Contacts**

**(1) SEER File (Merged 1968 and 1969-1970 Files)**

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) 21 = Number of Contacts on Large Offensive Operations | M1-13; M14, P1-5 | | 20 | | CD2, V27 |
| (b) 22 = Number of Contacts on Large Defensive Operations | M1-13; M14, P1-5 | | 65 | | CD2, V28 |
| (c) 23 = Number of Contacts on Small Offensive Operations | M1-13; M14, P1-5 | | 60 | | CD2, V29 |
| (d) 24 = Number of Contacts on Small Defensive Operations | M1-13; M14, P1-5 | | 75 | | CD2, V10 |
| (e) 29-30 = Plt. Equiv. Hr. of Contact by Large Offensive Ops. | M1-13; M14, P1-5 | | 50 | | |
| (f) 31-32 = Plt. Equiv. Hr. of Contact by Large Defensive Ops. | M1-13; M14, P1-5 | | 65 | | |
| (g) 33-34 = Plt. Equiv. Hr. of Contact by Small Offensive Ops. | M1-13; M14, P1-5 | | 70 | | |
| (h) 35-36 = Plt. Equiv. Hr. of Contact by Small Defensive Ops. | M1-13; M14, P1-5 | | 75 | | |

(The 224 variable data set for 1969-1970 also contains variables which distinguish numbers of contacts with enemy platoons, companies, and battalions.)

**(2) TFES File (Summary File)**

| | | | | | |
|---|---|---|---|---|---|
| (a) 41-45 = PF Operations with Contact | M1-12 | | 5 | | |
| (b) 43-47 = RF Operations with Contact | M1-12 | | 10 | | |

**f. GVN Activity by Casualties Received**

**(1) SEAPRS File**

| | | | | | |
|---|---|---|---|---|---|
| (a) 4 = ARVN/VNMC KIA on Large Scale Operations | None | None | 70 | 40 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (b) 5 = ARVN/VNMC KIA on Small Scale Operations | M14 | None | 80 | 70 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (c) 6 = RF KIA on Large Scale Operations | None | None | 85 | 95 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (d) 7 = RF KIA on Small Scale Operations | M14 | None | 75 | 50 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (e) 9 = PF KIA on Small Scale Operations | M14 | None | 75 | 40 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (f) 10 = "Other" GVN KIA on Large Scale Operations | None | P24-25; M66-70 | 60 | 55 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (g) 11 = "Other" GVN KIA on Small Scale Operations | M14 | M49-70 | 95 | 99 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (h) 12 = Unknown GVN KIA on Large Scale Operations | M14 | None | 60 | 99 | PC1, V1, 2, 3, 9, 10, 19, 20&21 |
| (i) 13 = Unknown GVN KIA on Small Scale Operations | M14 | None | 95 | 35 | |
| (j) 14 = ARVN/VNMC WIA on Large Scale Operations | None | None | 70 | 85 | |
| (k) 15 = ARVN/VNMC WIA on Small Scale Operations | M14 | None | 85 | 35 | |
| (l) 16 = RF WIA on Large Scale Operations | None | None | 85 | 45 | |
| (m) 17 = RF WIA on Small Scale Operations | M14 | None | 90 | 99 | |
| (n) 19 = PF WIA on Small Scale Operations | M14 | None | 75 | 99 | |
| (o) 20 = "Other" GVN WIA on Large Scale Operations | M14 | None | 95 | 99 | |
| (p) 21 = "Other" GVN WIA on Small Scale Operations | M14 | None | 60 | 35 | |
| (q) 22 = Unknown GVN WIA on Large Scale Operations | None | None | 70 | 35 | |
| (r) 23 = Unknown GVN WIA on Small Scale Operations | None | None | 40 | 70 | |
| (s) 56 = GVN KIA on Large Scale Operations | None | None | 85 | 95 | CD1, V50; CD2, V6 |
| (t) 58 = GVN Individual Weapons Lost on Large Scale Ops. | None | None | 95 | 85 | CD1, V54 |
| (u) 59 = GVN Crew Served Weapons Lost on Large Scale Ope. | None | None | 35 | 30 | CD1, V58 |
| (v) 62 = GVN WIA on Large Scale Operations | None | None | 40 | 35 | CD1, V49 |
| (w) 66 = GVN WIA on Small Scale Operations | M14 | None | 60 | 70 | CD1, V53 |
| (x) 68 = GVN Individual Weapons Lost on Small Scale Ope. | M14 | None | | | |

Variable List by Concept and Data Source

| Concept and Data Source | Missing Data M1-48 | Missing Data M49-70 | Percent Zero M1-48 | Percent Zero 49-70 | Variable Use |
|---|---|---|---|---|---|
| (γ) 69 = GVN Crew Served Weapons Lost on Small Scale Ops. | M1-48 | | 95 | 99 | CD1, V57 |
| (z) 72 = GVN KIA on Small Scale Operations | M14 | | 40 | 25 | CD1, V47 |
| (aa) 262 = ARVN/VNMC KIA on Friendly Initiated Operations | M1-18 | M449-70 | 15 | | CD1, V60 |
| (ab) 273 = PF KIA (on Friendly Initiated Operations?) | M1-12, 43-48 | M68-70 | 5 | 20 | CD1, V60 |
| (ac) 278 = RF KIA (on Friendly Initiated Operations?) | M1-12, 43-48 | M68-70 | 5 | 5 | CD1, V60 |
| **(2) SEER File (Merged 1968 and 1969-1970 Files)** | | | | | |
| (a) 13 = ARVN/VNMC KIA in Firefights | M1-13; M14, P1-5 | | 25 | | CD2, V18&20 |
| (b) 15 = ARVN/VNMC Total KIA | M1-13; M14, P1-5 | | 15 | | CD2, V19&21 |
| (c) 45+47 = ARVN/VNMC Casualties on Offensive Operations | M1-13; M14, P1-5 | | 20 | | CD2, V18&19 |
| (d) 46+48 = ARVN/VNMC Casualties on Defensive Operations | M1-13; M14, P1-5 | | 60 | | CD2, V20&21 |
| (e) 45+46 = ARVN/VNMC Casualties on Large Unit Operations | M1-13; M14, P1-5 | | 20 | | |
| (f) 47+48 = ARVN/VNMC Casualties on Small Unit Operations | M1-13; M14, P1-5 | | 60 | | |
| (g) 51+54 = ARVN/VNMC KIA on Combined GVN/US or FWMF Ops. | M1-27 | | 90 | | |
| (h) 57 = ARVN/VNMC KIA on Joint ARVN/RF Ops. | M1-27 | | 85 | | |
| **(3) TFES File (Summary File)** | | | | | |
| (a) 49 = PF KIA | M1-12 | | 10 | | |
| (b) 51 = RF KIA | M1-12 | | 10 | | |
| (c) 54 = RF Weapons Lost | M1-12 | | 50 | | |
| (d) 55 = PF Weapons Lost | M1-12 | | 40 | | |
| **• GVN Activity by Casualties Inflicted** | | | | | |
| **(1) SEAPRS File** | | | | | |
| (a) 54 = Enemy Captured on Large Scale GVN Operations | M1-27 | None | 40 | 40 | CD1, V52; PC1, V2, 10&21 |
| (b) 57 = Enemy KIA on Large Scale GVN Operations | None | None | 30 | 20 | CD1, V56 |
| (c) 60 = Enemy Individual Weapons Captured on Lge. GVN Ops. | None | None | 40 | 25 | CD1, V56 |
| (d) 61 = Enemy Crew Served Weapons Captured on Lge. GVN Ops. | None | None | 60 | 35 | |
| (e) 64 = Enemy Captured on Small Scale GVN Operations | M1-27 | None | 60 | 40 | CD1, V51; P.1, V2, 10&21 |
| (f) 67 = Enemy KIA on Small Scale GVN Operations | M14 | None | 20 | 20 | CD1, V55 |
| (g) 70 = Enemy Individual Weapons Capt. on Small GVN Ops. | M14 | None | 30 | 15 | CD1, V48 |
| (h) 71 = Enemy Crew Served Weapons Capt. on Small GVN Ops. | M14 | None | 80 | 75 | CD1, V61 |
| (i) 263 = Enemy KIA on ARVN/VNMC Initiated Operations | M1-18 | M49-70 | 15 | | CD1, V61 |
| (j) 272 = Enemy KIA by PF (Initiated Operations?) | M1-12, 43-48 | M68-70 | 5 | 20 | |
| (k) 277 = Enemy KIA by RF (Initiated Operations?) | M1-12, 43-48 | None | 5 | 5 | |
| **(2) SEER File (Merged 1968 and 1969-1970 Files)** | | | | | |
| (a) 6 = Enemy KIA by Supporting Arms Fire for ARVN/VNMC | M1-13; M14, P1-5 | | 45 | | |
| (b) 7 = Enemy KIA in ARVN/VNMC Firefights | M1-13; M14, P1-5 | | 20 | | |
| (c) 9 = Enemy KIA by ARVN/VNMC Operations | M1-13; M14, P1-5 | | 15 | | |

| Variable List by Concept and Data Source | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|
| | M1-48 | M49-70 | M1-48 | M49-70 | |
| (d) 37-39 = Enemy KIA/CIA by ARVN/VNMC Offensive Ops. | M1-13; M14, P1-5 | | 30 | | |
| (e) 38-40 = Enemy KIA/CIA by ARVN/VNMC Defensive Ops. | M1-13; M14, P1-5 | | 70 | | |
| (f) 37-38 = Enemy KIA/CIA on ARVN/VNMC Large Operations | M1-13; M14, P1-5 | | 30 | | |
| (g) 39-40 = Enemy KIA/CIA on ARVN/VNMC Small Operations | M1-13; M14, P1-5 | | 50 | | |
| (h) 41-43 = Enemy Weapons Captured on ARVN/VNMC Offensive Ops. | M1-13; M14, P1-5 | | 30 | | |
| (i) 42-44 = Enemy Weapons Captured on ARVN/VNMC Defensive Ops. | M1-13; M14, P1-5 | | 70 | | |
| (j) 41-42 = Enemy Weapons Captured on ARVN/VNMC Large Ops. | M1-13; M14, P1-5 | | 30 | | |
| (k) 43-44 = Enemy Weapons Captured on ARVN/VNMC Small Ops. | M1-13; M14, P1-5 | | 70 | | |
| (l) 50-53 = Enemy KIA on Combined GVN/US or FWMF Operations | M1-13; M14, P1-5 | | 70 | | |
| (m) 56 = Enemy Caches Found or Joint ARVN/RF Operations | M1-27 | | 85 | | |
| (n) 68 = Enemy Caches Found or ARVN VNMC Operations | M1-27 | | 80 | | |
| | M1-24 | | 40 | | |
| **(1) TFES File (Summary File)** | | | | | |
| (a) 48 = Enemy KIA by PF (Initiated Operations**) | M1-12 | | 10 | | |
| (b) 50 = Enemy KIA by RF (Initiated Operations**) | M1-12 | | 10 | | |
| (c) 52 = Enemy Weapons Captured by RF | M1-12 | | 15 | | |
| (d) 53 = Enemy Weapons Captured by PF | M1-12 | | 20 | | |
| **h. GVN Activity by Combat Support Received** | | | | | |
| **(1) SEER File (Merged 1968 and 1969-1970 Files)** | | | | | |
| (a) 62 = Total Arty/NGF Missions | M1-24 | | 15 | | |
| (b) 63 = Total Gun Ship/Tac Air Missions | M1-27 | | 15 | | |
| (c) 64 = Total Air Lift/Medevac Missions | M1-27 | | 10 | | |
| (d) 65 = Total Arty/NGF Rounds Fired | M1-24 | | 15 | | |
| (e) 66 = Total Gun Ship/Tac Air Sorties | M1-24 | | 15 | | |
| (f) 67 = Total Air Lift/Medevac Sorties | M1-24 | | 10 | | |
| **i. US + 3rd Country Activity by Force Size on Operation** | | | | | |
| **(1) SEAPRS File** | | | | | |
| (a) 35-75 = Battalion Days on US/FWMF Large Scale Ops. | M1-5 | None | 70 | 95 | |
| (b) 43-83 = Number of US/FWMF Large Scale Operations | None | None | 70 | 95 | |
| (c) 55-85 = Battalion Days on US/FWMF Small Scale Ops. | M1-12, 25-48 | None | 80 | 100 | CD1, V18: PC1, V15, 16&17 |
| (d) 53-93 = Number of US/FWMF Small Scale Operations | None | None | 70 | 98 | CD1, V19: PC1, V17, 24&25 |
| **j. US + 3rd Country Activity by Casualties Received** | | | | | |
| **(1) SEAPRS File** | | | | | |
| (a) 36-76 = US/FWMF KIA on Large Scale Operations | None | None | 70 | 95 | CD1, V45: PC1, V2, 10&21 |
| (b) 38-78 = US/FWMF Individual Weapons Lost on Lg. Scale Ops. | None | None | 95 | 99 | |
| (c) 39-79 = US/FWMF Crew served Weapons Lost on Lg. Scale Ops. | None | None | 95 | 99 | |
| (d) 42-82 = US/FWMF WIA on Large Scale Operations | None | None | 70 | 98 | CD1, V45: PC1, V2, 10&21 |
| (e) 46-86 = US/FWMF KIA on Small Scale Operations | None | None | 80 | 98 | |

Variable List by Concept and Data Source

| Concept and Data Source | Missing Data M148 | M49-70 | Percent Zero M148 | M49-70 | Variable Use |
|---|---|---|---|---|---|
| (f) 48+88 = US/FWMF Indiv. Weapons Lost on Sm. Scale Ops. | None | None | 95 | 100 | |
| (g) 49+89 = US/FWMF Crew Swd. Weapons Lost on Sm. Scale Ops. | None | None | 100 | 100 | |
| (h) 52+92 = US/FWMF WIA on Small Scale Operations | None | None | 75 | 99 | |
| (i) 94 = US Army Combat Deaths | None | None | 50 | 90 | |
| (j) 95 = USMC Combat Deaths | None | None | 85 | 93 | |
| (k) 96 = USAF Combat Deaths | None | None | 90 | 98 | |
| (l) 97 = USN/USCG Combat Deaths | None | None | 85 | 90 | |
| (m) 98 = Total US Armed Forces Combat Deaths | None | None | 40 | 90 | |

k. US + 3rd Country Activity by Casualties Inflicted

(1) SEAPRS File

| Concept and Data Source | Missing Data M148 | M49-70 | Percent Zero M148 | M49-70 | Variable Use |
|---|---|---|---|---|---|
| (a) 34+74 = Enemy Captured on Large Scale US/FWMF Operations | M1-24 | None | 70 | 95 | CD1, V46; PC1, V2, 10&21 |
| (b) 37+77 = Enemy KIA on Large Scale US/FWMF Operations | None | None | 70 | 95 | CD1, V59 |
| (c) 40+80 = Enemy Indiv. Weapons Captured on Lg. Scale Ops | None | None | 70 | 97 | CD1, V59 |
| (d) 41+81 = Enemy Crew Swd. Weapons Captured on Lg. Scale Ops. | None | None | 75 | 97 | |
| (e) 44+84 = Enemy Captured on Small Scale US/FWMF Operations | M1-24 | None | 85 | 98 | CD1, V46; PC1, V2, 10&21 |
| (f) 47+87 = Enemy KIA on Small Scale US/FWMF Operations | None | None | 80 | 96 | CD1, V59 |
| (g) 50+90 = Enemy Indiv. Weapons Captured on Sm. Scale Ops. | None | None | 85 | 98 | CD1, V59 |
| (h) 51+91 = Enemy Crew Swd. Weapons Captured on Sm. Scale Ops. | None | None | 90 | 99 | |

l. GVN Military Activity by Outcome

(1) QHES/70 Index File

| Concept and Data Source | Missing Data M148 | M49-70 | Percent Zero M148 | M49-70 | Variable Use |
|---|---|---|---|---|---|
| (a) 209 = province population in hamlets where no enemy contact was made HMD5-0 | M1-30 | None | 0 | 0 | |
| (b) 210 = province population in hamlets with significant friendly victory HMD5-1 | M1-30 | None | 0 | 0 | |
| (c) 211 = province population in hamlets with minor victory HMD5-2 | M1-30 | None | 0 | 0 | |
| (d) 212 = province population in hamlets with indecisive military results HMD5-3 | M1-30 | None | 0 | 0 | |
| (e) 213 = province population in hamlets with minor defeat HMD5-4 | M1-30 | None | 0 | 0 | |
| (f) 214 = province population in hamlets with significant defeat HMD5-5 | M1-30 | None | 0 | 0 | |

Variable List by Concept and Data Source

3. VC and NVA Resources

a. Indicated by Number of Units

(1) SEAPRS File

| | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (a) | 154 = NVA Maneuver Battalions | None | M64-70 | 40 | 55 | CD1, V25; CD2, V10 |
| (b) | 155 = VC Maneuver Battalions | None | M64-70 | 15 | 20 | CD1, V26 |
| (c) | 156 = NVA Combat Support Battalions | None | M64-70 | 70 | 80 | CD1, V25; CD2, V10 |
| (d) | 157 = VC Combat Support Battalions | None | M64-70 | 80 | 90 | CD1, V26 |
| (e) | 158 = VC Separate Companies | None | M64-70 | 5 | 25 | CD1, V27 |
| (f) | 159 = VC Separate Platoons | None | M64-70 | 60 | 60 | CD1, V28 |

b. Indexed by Personnel Strength

(1) SEAPRS File

| | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (a) | 145 = NVA Maneuver Strength | None | M64-70 | 40 | 50 | CD1, V20; PC1, V5, 12&13 |
| (b) | 146 = VC Maneuver Strength | None | M64-70 | 15 | 20 | CD1, V21; PC1, V5, 12&13 |
| (c) | 147 = NVA Combat Support Strength | None | M64-70 | 70 | 70 | CD1, V20; PC1, V5, 12&13 |
| (d) | 148 = VC Combat Support Strength | None | M64-70 | 80 | 80 | CD1, V21; PC1, V5, 12&13 |
| (e) | 149 = VC Separate Company Strength | None | M64-70 | 5 | 20 | CD1, V22&23; PC1, V23 |
| (f) | 150 = VC Separate Platoon Strength | None | M64-70 | 60 | 60 | CD1, V22&23; PC1, V23 |
| (g) | 151 = NVA Administrative Strength | None | M64-70 | 90 | 85 | |
| (h) | 152 = VC Administrative Strength | None | M64-70 | 50 | 25 | |
| (i) | 153 = Guerrilla Strength | M14-31 | M64-70 | 0 | 20 | CD1, V22&24 |

(2) VCI Data (Hard Copy Reports)

| | | Missing Data | | Percent Zero | | |
|---|---|---|---|---|---|---|
| (a) | 1 = Total VCI Strength | None* | | | | |
| (b) | 2 = High Level VCI Strength | None* | | | | |

*Monthly province data obtained from MR monthly data and Jan '71 province distribution within MR's

(3) QHES/70 File

| | | Missing Data | | Percent Zero | | |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (a) | 141 = province population in VC controlled hamlet HMB1-1 | M1-30;M32-36, P31, 36, 37, 39 & 40 | None | 0 | 0 | |
| (b) | 142 = province population in VC defended hamlet HMB1-2 | M1-30;M32-36, P31, 36, 37, 39 & 40 | none | 0 | 0 | |

(4) QHES/70 Index File

| | | Missing Data | | Percent Zero | | |
|---|---|---|---|---|---|---|
| (a) | 14 = average score (9-5) for enemy nearby strength VMB1 | M1-30;M32-36, P31, 36, 37, 39 & 40 | None | 0 | 0 | |
| (b) | 15 = average score (9-5) for enemy control of hamlet HMB1 | M1-30;M32-36, P31, 36, 37, 39 & 40 | None | 0 | 0 | |
| (c) | 16 = average score (9-5) for enemy presence HMB4 | M1-30;M32-36, P31, 36, 37, 39 & 40 | None | 0 | 0 | |
| (d) | 17 = enemy strength index (9-5) | M1-30;M32-36, P31, 36, 37, 39 & 40 | None | 0 | 0 | |
| (e) | 65 = average score (9-5) for enemy service membership HQF1 | M1-30 | None | 0 | 0 | |
| (f) | 66 = average score (9-5) for enemy group activity participation HQB3 | M1-30 | None | 0 | 0 | |

## Variable List by Concept and Data Source

c. Indexed by Number of Returnees

  (1) SEAPRS File

| | | Missing Data | | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M7-13 | M1-48 | M49-70 | |
| (a) | 99 = Military Hoi Chanh | M28 | | | 10 | 60 | CD1, V62&63 |
| (b) | 100 = Political Hoi Chanh | M28 | | | 20 | 65 | CD1, V63 |
| (c) | 101 = 'Other' Hoi Chanh | M28 | | M7-13 | 60 | 60 | CD1, V63 |

4. VC and NVA military Activities

  a. Indicated by Number of Actions

    (1) SEAPRS File

| | | Missing Data | Percent Zero | | Variable Use |
|---|---|---|---|---|---|
| | | M49-70 | M1-48 | M49-70 | |
| (a) | 166 = Incidents of Anti-Aircraft Fire | M70 | 10 | 35 | PC1, V4, 11&22 |
| (b) | 167 = Assaults Against Civilian Targets | | 70 | 60 | CD1, V29; PC1, V4, 11&22 |
| (c) | 172 = Assaults Against LOC Targets | | 95 | 100 | PC1, V4, 11&22 |
| (d) | 176 = Assaults Against Military Target. | | 60 | 35 | CD1, V36; PC1, V4, 11&22 |
| (e) | 167+172+176 = Total Number of Assaults | | 50 | 50 | CD1, V40; PC1, V4, 11&22 |
| (f) | 164 = Attacks by Fire Against Civilian Targets | | 60 | 70 | CD1, V30; PC1, V4, 11&22 |
| (g) | 177 = Attacks by Fire Against Military Targets | | 50 | 45 | CD1, V37; CD2, V9, PC1, V4, 11&22 |
| (h) | 180 = Harassment by Fire Against Civilian Targets | | 20 | 40 | CD1, V30; PC1, V4, 11&22 |
| (i) | 181 = Harassment by Fire Against LOC Targets | | 80 | 85 | PC1, V4, 11&22 |
| (j) | 182 = Harassment by Fire Against Military Targets | | 5 | 20 | CD1, V37; CD2, V9, PC1, V4, 11&22 |
| (k) | 169+177+180+181+182 = Total Number of Standoff Attacks | | 5 | 5 | CD1, V41; PC1, V4, 11&22 |
| (l) | 174 = Harassment Against LOC Targets | | 50 | 50 | PC1, V4, 11&22 |
| (m) | 178 = Harassment Against Civilian Targets | | 40 | 40 | CD1, V33; PC1, V4, 11&22 |
| (n) | 179 = Harassment Against Military Targets | | 15 | 35 | CD1, V38; CD2, V12; PC1, V4, 11&22 |
| (o) | 174+178+179 = Total Number of Harassment Incidents | | 15 | 15 | CD1, V42; PC1, V4, 11&22 |
| (p) | 170 = Coercion Against Personnel Targets (VCIIA) | M70 | 70 | 75 | CD1, V32&43; CD2, V12; PC1, V4, 11&22 |
| (q) | 220 = Coercion Against Personnel Targets (TERSA) | | 100 | 100 | CD1, V44; PC1, V4, 11&22 |
| (r) | 218 = Coercion Against Civilian Targets | M66, 68, 70 | 90 | 40 | PC1, V4, 11&22 |
| (s) | 221 = Coercion Against LOC Targets | M66, 68, 70 | 95 | 95 | CD1, V43; PC1, V4, 11&22 |
| (t) | 221 = Terrorism Against Civilian Targets | M1-8 | 90 | 25 | CD1, V44; PC1, V4, 11&22 |
| (u) | 225 = Terrorism Against LOC Targets | M1-8 | 95 | 35 | CD1, V42; PC1, V4, 11&22 |
| (v) | 170+218+220+221+223+225 = Total Coercion/Terrorism | M1-8 | 60 | 60 | PC1, V4, 11&22 |
| (w) | 167+168+180+178+170+221 = Total Incidents Against Civilian Targets | M1-8 | 50 | 25 | CD1, V34; PC1, V4, 11&22 |
| (x) | 172+174+181+223+225 = Total Incidents Against LOC Targets | M1-8 | 60 | 50 | CD1, V35; PC1, V4, 11&22 |
| (y) | 170+176+177+179+182 = Total Incidents Against Military Targets | None | 10 | 10 | CD1, V39; PC1, V4, 11&22 |

## Variable List by Concept and Data Source

|  | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|
|  | M1-48 | M49-70 | M1-48 | M49-70 |  |

**(2) QHES/70 Index File**

| | Variable | Missing Data M1-48 | M49-70 | Pct Zero M1-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|---|
| (a) | 2 = average score (9-5) for nonselective terrorism HMB6 | M1-30;M32-36, P31, 36, 37, 39 & 40 | None | 0 | 0 | |
| (b) | 3 = average score (9-5) for incidents against non-military activities HMB7 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (c) | 5 = average score (9-5) for enemy action against local security forces HMB2 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (d) | 6 = average score (9-5) for level of enemy activity HMB3 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (e) | 7 = average score (8-5) for presence of enemy forces HMB4 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (f) | 1 = average score (9-5) for selective terrorism HMB5 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (g) | 4 = average score (9-5) for enemy control of hamlet HMB1 | M1-30;M32-36, P31, 36, 17, 39 & 40 | | 0 | 0 | |
| (h) | 9 = average score of incidents against civilians | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (i) | ? = average score of civilian casualties | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (j) | 18 = average score (9-5) for frequency of activity HMB2 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (k) | 19 = average score (9-5) for intensity of activity HMB3 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (l) | 20 = average score (8-5) for selective terrorism HMB5 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (m) | 21 = average score (8-5) for nonselective terrorism HMB6 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (n) | 22 = average score (8-5) for incidents against non-military activities HMB7 | M1-30;M32-36, P31, 36, 39 & 40 | | 0 | 0 | |
| (o) | 23 = enemy activity index (9-5) | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |

**(3) QHES/70 File**

| | Variable | Missing Data M1-48 | M49-70 | Pct Zero M1-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|---|
| (a) | 461 = province population with no enemy force or less than a platoon of enemy nearby VMB1-0-VMB1-1 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |
| (b) | 463 = province population with a platoon or company of enemy nearby VMB1-2+VMB1-3 | M1-30;M32-36, P31, 36, 37, 39, 40 | | 0 | 0 | |
| (c) | 465 = province population with a battalion of enemy nearby VMB1-4 | M1-30;M32-36, P31, 36, 37, 39 & 40 | | 0 | 0 | |

**(4) SEER File (Merged 1968 and 1969-1970 Files)**

(No VC incident data was included in merged files because VCIIA and TIRSA data is reported to be more reliable and complete. This data does not offer a day-night distinction which could be of interest.)

**b. Indicated by Casualties Received**

**(1) SEAPRS File**

| | Variable | Missing Data M1-48 | M49-70 | Pct Zero M1-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|---|
| (a) | 161 = Enemy KIA in Enemy Harassment by Fire Incidents | None | None | 60 | 90 | PCI, V2, 10&21 |
| (b) | 188 = Enemy KIA in Enemy Attack by Fire Incidents | None | None | 90 | 98 | PCI, V2, 10&21 |
| (c) | 161+188 = Enemy KIA in Enemy Standoff Attacks | None | None | 60 | 90 | CDI, V67 |
| (d) | 187 = Enemy KIA in Enemy Assault Incidents | None | None | 60 | 85 | CDI, V69; PCI, V2, 10&21 |
| (e) | 180 = Enemy KIA in Enemy Harassment Incidents | None | None | 95 | 85 | PCI, V2, 10&21 |

Variable List by Concept and Data Source

(2)  SEER File (Merged 1968 and 1969-1970 Files)

(Same comment as for numbers of incidents above)

(3)  QHES/70 Index File

(No QHES/70 Data related to enemy casualties received)

c.  Indicated by Casualties Inflicted

(1)  SEAPRS File

| Item | Description | Missing Data M1-48 | Missing Data M49-70 | Percent Zero M1-48 | Percent Zero M49-70 | Variable Use |
|---|---|---|---|---|---|---|
| (a) | 160 = RVNAF KIA in Harassments by Fire | None | None | 85 | 70 | CD1, V64; PC1, V2, 10&21 |
| (b) | 162 = PF KIA in Harassments by Fire | None | None | 80 | 80 | CD1, V65&72; PC1, V2, 10&21 |
| (c) | 161 = RF KIA in Harassments by Fire | None | None | 75 | 75 | CD1, V65&72; PC1, V2, 10&21 |
| (d) | 164+205 = US/FWMF KIA in Harassments by Fire | None | None | 80 | 95 | CD1, V66; PC1, V2, 10&21 |
| (e) | 165+208 = Unknown/"Other" KIA in Harassments by Fire | None | None | 70 | 90 |  |
| (f) | 184 = RVNAF KIA in Attacks by Fire | None | None | 85 | 85 | CD1, V64; PC1, V2, 10&21 |
| (g) | 191 = PF KIA in Attacks by Fire | None | None | 90 | 85 | CD1, V65&72; PC1, V2, 10&21 |
| (h) | 193 = RF KIA in Attacks by Fire | None | None | 85 | 97 | CD1, V65&72; PC1, V2, 10&21 |
| (i) | 196 = US KIA in Attacks by Fire | None | None | 80 | 99 | CD1, V66; PC1, V2, 10&21 |
| (j) | 199+207 = Unknown/"Other" KIA in Harassments by Fire | None | None | 60 | 60 | PC1, V2, 10&21 |
| (k) | 160+162+163+164+165+184+191+193+196+199+205+207+408 = Friendly Casualties from Standoff Attacks | None | None |  |  |  |
| (l) | 183 = RVNAF KIA in Assaults | None | None | 85 | 85 | CD1, V68; PC1, V2, 10&21 |
| (m) | 190 = PF KIA in Assaults | None | None | 70 | 95 | CD1, V68&72; PC1, V2, 10&21 |
| (n) | 192 = RF KIA in Assaults | None | None | 80 | 85 | CD1, V68&72; PC1, V2, 10&21 |
| (o) | 195 = US KIA in Assaults | None | None | 80 | 95 | CD1, V68; PC1, V2, 10&21 |
| (p) | 198+206 = Unknown/"Other" KIA in Assaults | None | None | 60 | 98 |  |
| (q) | 183+190+192+195+198+206 = Friendly Casualties from Assaults | None | None | 75 | 80 | PC1, V2, 10&21 |
| (r) | 185 = RVNAF KIA by Harassment | None | None | 90 | 85 | CD1, V70; PC1, V2, 10&21 |
| (s) | 200 = PF KIA by Harassment | None | None | 85 | 90 | CD1, V70&72; PC1, V2, 10&21 |
| (t) | 194 = RF KIA by Harassment | None | None | 70 | 98 | CD1, V70&72; PC1, V2, 10&21 |
| (u) | 197+202 = US/FWMF KIA by Harassment | None | None | 60 | 90 | CD1, V70; PC1, V2, 10&21 |
| (v) | 201+209 = Unknown/"Other" KIA by Harassment | None | None | 60 | 60 |  |
| (w) | 185+194+197+200+201+202+209 = Friendly KIA from Harassment | None | None | 60 | 60 | PC1, V2, 10&21 |
| (x) | 160+183+184+185 = RVNAF Casualties to En. Initiated Actions | None | None | 60 | 60 | CD1, V71; PC1, V2, 10&21 |
| (y) | 164+195+196+197+202+205 = US/FWMF Casualties to En. Initiated Actions | None | None | 60 | 95 | PC1, V2, 10&21 |
| (aa) | 236 = Civilians Killed by Terrorists | None | M66,67,70 | 95 | 40 | CD1, V73; PC1, V2, 10&21 |
| (ab) | 253 = Civilians Abducted by Terrorists | None | M66,67,70 | 90 | 50 | CD1, V74 |
| (ac) | 254 = Civilians Wounded by Terrorists | None | M66,67,70 | 90 | 40 | CD1, V75 |

(2)  SEER File (Merged 1968 and 1969-1970 Files)

| Item | Description | Missing Data M1-48 | Missing Data M49-70 | Percent Zero M1-48 | Percent Zero M49-70 | Variable Use |
|---|---|---|---|---|---|---|
| (a) | 10 = ARVN/VNMC KIA by Enemy Mines/Booby Traps | M1-13; M14, P1-5 |  | 50 |  |  |
| (b) | 11 = ARVN/VNMC KIA by Enemy Standoff Attacks | M1-13; M14, P1-5 |  | 75 |  |  |
| (c) | 14 = ARVN/VNMC KIA by Enemy Snipers/Ambush | M1-13; M14, P1-5 |  | 70 |  |  |

Variable List by Concept and Data Source

(B) QHES/70 Index File

| | | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|---|
| | | | M1-48 | M49-70 | M1-48 | M49-70 | M49-70 |
| (a) | 10 | = | average province score (9-5) for enemy caused civilian casualties HMDI | M1-30:M32-36, P31, 36, 37, 39 &40 | none | 0 | 0 | 0 |
| (b) | 11 | = | average province score (9-5) for enemy caused damage HME2 | M1-30:M32-36, P31, 36, 37, 39 &40 | | 0 | 0 | |
| (c) | 12 | = | population protection index (9-5) | M1-30:M32-36, P31, 36, 37, 39 &40 | | 0 | 0 | |

2. GVN Economic and Political Activity

a. GVN Economic Activity

(1) QHES/70 File (Village Level)

| | | | | M1-48 | M49-70 | M1-48 | M49-70 | M49-70 |
|---|---|---|---|---|---|---|---|---|
| (a) | 408 | = | Province population in village with no public works projects underway VQN4-0 | M1-30 | none | 0 | 0 | 0 |
| (b) | 409 | = | Province population living in village with public works project underway VQN4-1 | M1-30 | | 0 | 0 | |
| (c) | 388 | = | Province population with no new self-development projects VQN1-0 | M1-30 | | 0 | 0 | |
| (d) | 389 | = | Province population with new self-development projects VQN1-1+VQN1-3 | M1-30 | | 0 | 0 | |
| (e) | 394 | = | Province population where no self-development projects exist VQN2-0 | M1-30 | | 0 | 0 | |
| (f) | 396 | = | Province population where self-development project was impaired by lack of technical assistance VQN2-2:VQN2-3 | M1-30 | | 0 | 0 | |
| (g) | 398 | = | Province population where self-development project was abandoned due to lack of technical aid VQN2-4 | M1-30 | | 0 | 0 | |
| (h) | 395 | = | Province population where lack of technical aid did not retard self-development VQN2-1 | M1-30 | | 0 | 0 | |
| (i) | 401 | = | Province population where lack of resources caused delay in self-development projects VQN3-2+VQN3-3 | M1-30 | | 0 | 0 | |
| (j) | 405 | = | Province population where lack of resources caused abandonment of project VQN3-4 | M1-30 | | 0 | 0 | |
| (k) | 412 | = | Province population where no GVN technicians visited local program VQN5-0 | M1-30 | | 0 | 0 | |
| (l) | 413 | = | Province population where GVN technicians visited local program occasionally VQN5-1+VQN5-2 | M1-30 | | 0 | 0 | |
| (m) | 415 | = | Province population where GVN technicians visited local program regularly or reside in village VQN5-3+VQN5-4 | M1-30 | | 0 | 0 | |

Variable List by Concept and Data Source

| | | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|---|
| | | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (2) | | QHES/70 File (Hamlet Level) | | | | | |
| (a) | 99 | Province population where there are no GVN economic programs HQN1-0 | M1-30 | None | 0 | 0 | |
| (b) | 100 | Province population with few participants (less than 10%) in GVN economic program HQN1-1 | M1-30 | None | 0 | 0 | |
| (c) | 101 | Province population with some (10-40%) in GVN economic program HQN1-2 | M1-30 | None | 0 | 0 | |
| (d) | 102 | Province population with many (41-90%) in GVN economic program HQN1-3 | M1-30 | None | 0 | 0 | |
| (e) | 103 | Province population with all (more than 90%) participants in GVN economic program HQN1-4 | M1-30 | None | 0 | 0 | |
| (f) | 106 | Province population with no self-development projects HQN2-0 | M1-30 | None | 0 | 0 | |
| (k) | 107 | Province population with few (less than 10%) self-development HQN2-1 | M1-30 | None | 0 | 0 | |
| (h) | 108 | Province population with some (10-40%) participation in self-development HQN2-2 | M1-30 | None | 0 | 0 | |
| (i) | 109 | Province population with many (41-90%) participants in self-development HQN2-3 | M1-30 | None | 0 | 0 | |
| (j) | 110 | Province population with all participating in self-development projects HQN2-4 | M1-30 | None | 0 | 0 | |

## Variable List by Concept and Data Source

c. GVN Political Activity

(1) QHES/70 File (Village Level)

| | | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|---|
| | | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (a) | 279 = | Province population with no active GVN administrative committee VQE1-0 | M1-30 | None | 0 | 0 | |
| (b) | 200 = | Province population with village chief only VQE1-1 | M1-30 | None | 0 | 0 | |
| (c) | 281 = | Province population with vacancies on administrative committee VQE1-3 | M1-30 | None | 0 | 0 | |
| (d) | 283 = | Province population with administrative committee completely staffed VQE1-4 | M1-30 | None | 0 | 0 | |
| (e) | 298 = | Province population with village chief present only irregularly VQE4-0+VQE4-1 | M1-30 | None | 0 | 0 | |
| (f) | 300 = | Province population with village chief present regularly daytime only VQE4-2 | M1-30 | None | 0 | 0 | |
| (g) | 301 = | Province population with village chief present regularly day and night VQE4-3 | M1-30 | None | 0 | 0 | |
| (h) | 304 = | Province population with no GVN village office VQE4-0 | M1-30 | None | 0 | 0 | |
| (i) | 305 = | Province population with GVN village office VQE5-1 | M1-30 | None | 0 | 0 | |
| (j) | 316 = | Province population where there are no RD cadre or no cooperation of RD cadre with village officials VQF5-0+VQF5-1 | M1-30 | None | 0 | 0 | |
| (k) | 338 = | Province population where cooperation between RD cadre and village officials is occasional or regular VQF5-2+VQF5-3 | M1-30 | None | 0 | 0 | |
| (l) | 342 = | Province population with no RG cadre or no control of cadre by village chief VQF6-0+VQF6-1 | M1-30 | None | 0 | 0 | |
| (m) | 344 = | Province population with partial or complete control of RD cadre by village chief VQF6-2+VQF6-3 | M1-30 | None | 0 | 0 | |
| (n) | 148 = | Province population with no RD cadre VQF7-0 | M1-30 | None | 0 | 0 | |
| (o) | 349 = | Province population where RDC does not sleep in village VQF7-1 | M1-30 | None | 0 | 0 | |
| (p) | 350 = | Province population when RDC occasionally or regularly sleeps in village VQF7-2+VQF7-3 | M1-30 | None | 0 | 0 | |
| (q) | 354 = | Province population with no trained info/Chieu Hoi cadre assigned to village VQG1-0+VQG1-1 | M1-30 | None | 0 | 0 | |
| (r) | 356 = | Province population with info/Chieu Hoi cadre assigned, not full time resident VQG1-2 | M1-30 | None | 0 | 0 | |
| (s) | 357 = | Province population with trained info/Chieu Hoi cadre full time resident in village VQG1-3 | M1-30 | None | 0 | 0 | |
| (t) | 360 = | Province population infrequently or never exposed to GVN movies VQG2-0+VQG2-1 | M1-30 | None | 0 | 0 | |
| (u) | 162 = | Province population periodically or regularly exposed to GVN movies VQG2-2+VQG2-3 | M1-30 | None | 0 | 0 | |

| | Variable List by Concept and Data Source | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (o) | Province population visited by GVN info cadre less than once a month or never VQG3-0-VQG3-1 | M1-30 | | 0 | 0 | |
| (ta) | Province population visited by GVN info cadre one to seven times a month VQG3-2-VQG3-3 | M1-30 | | 0 | 0 | |
| (s) | Province population visited by GVN info cadre three or more times a week VQG3-4 | M1-30 | | 0 | 0 | |

(2) QHES/70 File (Hamlet Level)

| | | M1-48 | M49-70 | M1-48 | M49-70 | |
|---|---|---|---|---|---|---|
| (a) | Province population where there is no hamlet chief HQE1-0 | M1-30 | | 0 | 0 | |
| (b) | Province population where the hamlet chief is appointed HQE1-1 | M1-30 | | 0 | 0 | |
| (c) | Province population where the hamlet chief is elected HQE1-2 | M1-30 | | 0 | 0 | |
| (d) | Province population where hamlet chief is not present in hamlet HQE2-0 | M1-30 | | 0 | 0 | |
| (e) | Province population where hamlet chief is irregularly present or present in daytime only HQE2-1-HQE2-2 | M1-30 | | 0 | 0 | |
| (f) | Province population where hamlet chief is present day and night HQE2-3 | M1-30 | | 0 | 0 | |
| (g) | Province population whose hamlet is not represented on village council HQE5-0 | M1-30 | | 0 | 0 | |
| (h) | Province population whose hamlet is represented on village council QHE5-1 | M1-30 | | 0 | 0 | |
| (i) | Province population where RD cadre had negative effect in hamlet HQF5-0 | M1-30 | | 0 | 0 | |
| (j) | Province population where RD cadre had no effect on hamlet QHF5-1 | M1-30 | | 0 | 0 | |
| (k) | Province population where RD cadre had positive effect in hamlet HQF5-2 | M1-30 | | 0 | 0 | |
| (l) | Province population whose hamlet was visited only briefly or not at all during the month HMA2-0-HMA2-1 | M1-30 | | 0 | 0 | |
| (m) | Province population whose hamlet was visited for one extended or frequent brief visit by the district chief HMA2-2-HMA2-3 | M1-30 | | 0 | 0 | |
| (n) | Province population in whose hamlet the district chief lives or which he has frequent extended visits HMA2-4-HMA2-5 | M1-30 | | 0 | 0 | |

(3) QHES/70 Index File

| | | M1-48 | M49-70 | M1-48 | M49-70 | |
|---|---|---|---|---|---|---|
| (a) | Average score (1-2) for hamlet chief selection HQE1 | M1-30 | | 0 | 0 | |
| (b) | Average score (1-3) for hamlet chief presence HQE2 | M1-30 | | 0 | 0 | |
| (c) | Average score (0-2) for dispute settlement QHE3 | M1-30, 49-52 | | 0 | 0 | |
| (d) | Average score (0-2) for hamlet representation on village council HQE5 | M1-30, 49-52 | | 0 | 0 | |

Variable List by Concept and Data Source

| | | | Missing Data | | Percent Zero | |
|---|---|---|---|---|---|---|
| | | | M1-48 | M49-70 | M1-48 | M49-70 |

Average score (5-1) for use of infer/Chieu Hoi cadre  VQG1 (6) 47 — M1-30 — None — o — o
Average score (5-2) for frequency of GVN moves (6) 48 — M1-30 — None — o — o
Average score (5-1) for GVN law enforcement HQD2 (3) 49 — M1-30 — None — o — o
Average score (5-1) for GVN village administrative committee VQE1 (6) 50 — M1-30 — None — o

Average score (5-1) for village chief presence VQE4 (5) 51 — M1-30 — None — o — o
Average score (5-2) for GVN village office VQF5 (3) 52 — M1-30 — None — o — o
Average score (5-2) for RDC cooperation VQF5 (8) 53 — M1-30 — None — o — o
Average score (5-2) for RDC control VQF6 (3) 54 — M1-30 — None — o — o
Average score (5-2) for RDC sleeping location VQF7 (3) 55 — M1-30 — None — o — o
Average score (5-1) for GVN info cadre visits VQG1 (3) 56 — M1-30 — None — o — o
Average score (5-1) for hamlet accessibility JIGC5 (3) 57 — M1-30 — None — o — o
GVN administrative index (5-1) (6) 58 — M1-30 — None — o — o

Military VVS Political and Economic Action

a. Political Actions

(1) Offensive Fib

(1) 105 — Population of hamlets where subversive terrorism was used attempted HMB5-0 — M1-30,M32-36, P31, 36, 17, 19&40 — None — c — c

(b) 106 — Population of hamlets where selective terrorism was attempted once during month HMB5-1 — M1-30,M32-16, P31, 36, 17, 19&40 — None — c — c

(c) 107 — Population of hamlets where selective terrorism was attempted more than once during month HMB5-2 — M1-30,M32-36, P31, 36, 17, 19&40 — None — c — c

(2) Offensive Index Fib

(3) 4 — Average score (5-5) for enemy control of hamlet HMB1 — M1-30,M32-36, P31, 36, 17, 19&40 — None — o — o
(5) 5 — Enemy control power index (5-5) — M1-30,M32-36, P31, 36, 17, 19&40 — None — o — o
(6) 50 — Average score (5-5) for VCI hamlet activity HQB1 — M1-10 — None — o — o
(7) 60 — Average score (5-5) for VCI village activity VQB1 — M1-30 — None — o — o
(1) 61 — Average score (5-5) for enemy propaganda meetings HMBB — M1-30 — None — o
(6) 62 — Average score (5-2) for dispute settlement at HQE1 — M1-30 — None — o
(6) 63 — VC administrative index (5-2) — M1-30 — None — o

Variable List by Conceptual Data Source

1. Cultural and Economic Factors

(1) QHES-70 File

| | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (a) | Land not cultivated due to poor security, VQT6-1 | Not Received | Not Rec'd | | | |
| (b) | Land not cultivated due to reason other than security VQT6-1 | Not Received | Not Rec'd | | | |

(2) QHES-70 Index File

| | | | M1-48 | M49-70 | M1-48 | M49-70 | |
|---|---|---|---|---|---|---|---|
| (a) | 24 | Average score (5-1) for health station accessibility VQP1 | M1-30 | None | 0 | 0 | |
| (b) | 25 | Average score (5-1) for maternity clinic accessibility VQP2 | M1-30 | | 0 | | |
| (c) | 26 | Average score (5-1) for accessibility of hospital or western medicine VQP3 | M1-30 | | 0 | | |
| (d) | 27 | Average score (5-1) for western medicine accessibility VQP4 | M1-30 | | 0 | | |
| (e) | 28 | Average score (5-1) for accessibility of secondary school VQR1 | M1-30 | | 0 | | |
| (f) | 29 | Average score (5-1) for attendance of secondary school VQR2 | M1-30 | | 0 | | |
| (g) | 30 | Average score (5-1) for primary education completion VQR3 | M1-30 | | 0 | | |
| (h) | 31 | Average score (5-1) for medical service accessibility HQP1 | M1-30 | | 0 | | |
| (i) | 32 | Average score (5-1) for after dance of primary school HQR1 | M1-30 | | 0 | | |
| (j) | 33 | overall benefits index (5-1) | M1-30 | | 0 | | |
| (k) | 34 | Average score (5-1) for variety of food in market VQL1 | M1-30 | | 0 | | |
| (l) | 35 | Average score (5-1) for variety of manufactured goods VQL2 | M1-30 | | 0 | | |
| (m) | 36 | Average score (5-1) for availability of surplus food and goods VQL4 | M1-30 | | 0 | | |
| (n) | 37 | Average score (5-1) for self-development equipment (tech) VQNC | M1-30 | | 0 | | |
| (o) | 38 | Average score (5-1) for self-development retardation (area) VQN3 | M1-30 | | 0 | | |
| (p) | 39 | Average score (5-2) for public works VQN4 | M1-30 | | 0 | | |
| (q) | 40 | Average score (5-1) for frequency of GVN tech visits VQN5 | M1-30 | | 0 | | |
| (r) | 41 | Average score (5-1) for area served by local market HQL1 | M1-30 | | 0 | | |
| (s) | 42-43 | Economic benefits index (5-1) | M1-30 | | 0 | | |
| (t) | 44 | Average score (5-1) for GVN tax collection VQE7 | M1-30 | None | 0 | 0 | |
| (u) | 45 | Average score (5-1) for visit by health worker HQP2 | M1-30 | | 0 | | |

| Variable List b. Concepts and Data Source | Missing Data M1-48 | M49-70 | Percent Zero M-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|
| B. Environmental Factors | | | | | |
| (1) GHES/70 File (Village Level) | | | | | |
| (a) 573 : Province population with limited or no quantities of pork and vegetables VQL1-0-VQL1-1 | M1-30 | None | 0 | 0 | |
| (b) 575 : Province population with ample pork and vegetables VQL1-2 | M1-30 | | 0 | | |
| (c) 578 : Province population with limited or no manufactured goods in market VQL2-0-VQL2-1 | M1-30 | | 0 | | |
| (d) 580 : Province population with ample manufactured goods in market VQL2-2 | M1-30 | | 0 | | |
| (e) 583 : Province population with little or no local surplus goods for sale VQL3-0-VQL3-1 | M1-30 | | 0 | | |
| (f) 585 : Province population with large supply of local surplus goods for sale VQL3-2 | M1-30 | | 0 | | |
| (g) 418 : Province population with GVN dispensary distant or inaccessible VQP1-0-VQP1-1 | M1-30 | | 0 | | |
| (h) 423 : Province population with GVN dispensary in village or nearby VQP1-2-VQP1-3 | M1-30 | | 0 | | |
| (i) 425 : Province population with GVN maternity clinic distant or inaccessible. VQP2-0-VQP2-1 | M1-30 | | 0 | | |
| (j) 427 : Province population with GVN maternity clinic in village or nearby VQP2-2-VQP2-3 | M1-30 | | 0 | | |
| (k) 431 : Province population with hospital distant or inaccessible  VQP3-0-VQP3-1 | M1-30 | | 0 | | |
| (l) 435 : Province population with hospital in village or nearby VQP3-2-VQP3-3 | M1-30 | | 0 | | |
| (m) 437 : Province population with western medicines limited or not available VQP4-0-VQP4-1 | M1-30 | | 0 | | |
| (n) 440 : Province population with adequate supply of western medicines VQP4-2 | M1-30 | | 0 | | |
| (o) 442 : Province population with distant or no GVN accredited school VQR1-0-VQR1-1 | M1-30 | | 0 | | |
| (p) 444 : Province population with GVN accredited school in village or nearby VQR1-2-VQR1-3 | M1-30 | | 0 | | |
| (q) 446 : Province population with  children in village in secondary school VQR2-0 | M1-30 | | 0 | | |
| (r) 449 : Province population with some, but less than 20%, attending secondary school VQR2-1-VQR2-2 | M1-30 | | 0 | | |
| (s) 451 : Province population with more than 20% of village children attending secondary school VQR2-3 | M1-30 | None | 0 | 0 | |

Variable List by Concept and Data Source

(1) OHES 70 File (Hamlet Level)

| | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (a) | 94 : Province population with no market in hamlet HQL1-0 | M1-30 | None | 0 | 0 | |
| (b) | 94,95 : Province population with market HQL1-1+HQL1-2 | M1-30 | | 0 | | |
| (c) | 111 : Province population with GVN medical services distant or not available HQP1-0+HQP1-1 | M1-30 | | 0 | | |
| (d) | 116 : Province population with GVN medical services in hamlet or nearby HQP1-2+HQP1-3 | M1-30 | | 0 | | |
| (e) | 119 : Province population with no hamlet children in primary school HQR1-0 | M1-30 | | 0 | | |
| (f) | 120 : Province population with distant primary school HQR1-1 | M1-30 | | 0 | | |
| (g) | 121 : Province population with primary school in or nearby hamlet HQR1-2+HQR1-3 | M1-30 | | 0 | | |
| (h) | 125 : Province population living in long established hamlet HQZ2-0 | M1-30 | | 0 | | |
| (i) | 126 : Province population living in hamlet which is less than five years old HQZ2-1 | M1-30 | | 0 | | |
| (j) | 127 : Province population living in hamlet which is less than one year old HQZ2-2 | M1-30 | | 0 | | |
| (k) | 128 : Province population living in hamlet which is refugee camp HQZ2-1 | M1-30 | | 0 | | |
| (l) | 129 : Province population living in hamlet coded as other HQZ2-4 | M1-30 | None | 0 | 0 | |

Variable List by Concept and Data Source

F. Political Behavior

a. Organizational Activities

(1) QHES/70 File

| | | | Missing Data M1-48 | M49-70 | Percent Zero M1-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|---|---|
| (a) | 86 | Population of province where no households have members in people's groups HQF6-0 | M1-30 | None | 0 | 0 | |
| (b) | 87 | Population of province where a few (less than 10%) households have members in people's groups HQF6-1 | M1-30 | | 0 | | |
| (c) | 88 | Population of province where some (10-40%) households have members in people's groups HQF6-2 | M1-30 | | 0 | | |
| (d) | 89 | Population of province where many (41-90%) households have members in people's groups HQF6-3 | M1-30 | | 0 | | |
| (e) | 326 | Population of province where no non-Communist parties are active VQF1-0 | M1-30 | | 0 | | |
| (f) | 327 | Population of province where one non-Communist party is active VQF3-1 | M1-30 | | 0 | | |
| (g) | 328 | Population of province where two non-Communist parties are active VQF1-2 | M1-30 | | 0 | | |
| (h) | 329 | Population of province where two or more non-Communist parties are active VQF1-3 | M1-30 | | 0 | | |
| (i) | 3.2 | Population of province where there are no organized youth Activities VQF4-0 | M1-30 | | 0 | | |
| (j) | 333 | Population of province where there is some organized youth activity VQF4-1 | M1-30 | | 0 | | |

b. Composition and Use of the Village Council

(1) QHES/70 File

| | | | Missing Data M1-48 | M49-70 | Percent Zero M1-48 | M49-70 | Variable Use |
|---|---|---|---|---|---|---|---|
| (a) | 286 | Population of province where no active village council exists VQE2-0 | M1-30 | | 0 | | |
| (b) | 287 | Population of province where all councilmen are appointed VQE2-1 | M1-30 | | 0 | | |
| (c) | 288 | Population of province where few (10%) of councilmen are elected VQE2-2 | M1-30 | | 0 | | |
| (d) | 289 | Population of province where some (30-70%) of councilmen are elected VQE2-3 | M1-30 | | 0 | | |
| (e) | 290 | Population of province where many (more than 70%) of councilmen are elected VQE2-4 | M1-30 | | 0 | | |
| (f) | 291 | Population of province where all councilmen are elected VQE2-5 | M1-30 | | 0 | | |
| (g) | 292 | Population of province where village chief is not elected VQE1-1 | M1-30 | None | 0 | 0 | |

| Variable List by Concept and Data Source | | Missing Data | | Percent Zero | | Variable Use |
|---|---|---|---|---|---|---|
| | | M1-48 | M49-70 | M1-48 | M49-70 | |
| (h) | 295 = Population of province where village chief is elected VQE3-1 | M1-30 | None | 0 | 0 | |
| (i) | 314 = Population of province where village council never meets openly VQF1-0 | M1-30 | | 0 | | |
| (j) | 315 = Population of province where village council meets less than once a month openly VQF1-1 | M1-30 | | 0 | | |
| (k) | 316 = Population of province where village council meets only once a month VQF1-2 | M1-30 | | 0 | | |
| (l) | 317 = Population of province where village council meets twice a month or more VQF1-3 | M1-30 | | 0 | | |
| (m) | 320 = Population of province where there are no grievance meetings and no action by village chief VQF2-0 | M1-30 | | 0 | | |
| (n) | 321 = Population of province where there were grievance meetings but no action taken VQF2-1 | M1-30 | | 0 | | |
| (o) | 322 = Population of province where occasional action taken VQF2-2 | M1-30 | | 0 | | |
| (p) | 323 = Population of province where meetings are held and action is taken regularly VQF2-3 | M1-30 | | 0 | | |

c. Behavioral Compliance with VC

(1) QHES/70 Index File

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) | 64 = Average score (9-5) for enemy tax collection HCB2 | M1-30 | | 0 | | |
| (b) | 65 = Average score (9-5) for enemy service membership HQF1 | M1-30 | | 0 | | |
| (c) | 66 = Average score (9-5) for enemy group activity participation HQB3 | M1-30 | | 0 | | |
| (d) | 67 = VC compliance index (9-5) | M1-30 | | 0 | | |

d. Behavioral Compliance with GVN

(1) QHES/70 Index File

| | | | | | | |
|---|---|---|---|---|---|---|
| (a) | 68 = Average score (5-1) on PSDF membership HQC6 | M1-30 | | 0 | | |
| (b) | 69 = Average score (5-1) on PSDF activity level HQC7 | M1-30 | | 0 | | |
| (c) | 70 = Average score (5-1) for participation in GVN economic activities HQN1 | M1-30 | | 0 | | |
| (d) | 71 = Average score (5-1) for hamlet chief presence VQE2 | M1-30 | | 0 | | |
| (e) | 72 = Average score (5-1) for self-development participation HQN2 | M1-30 | | 0 | | |
| (f) | 73 = Average score (5-2) for election of village chief VQE3 | M1-30 | | 0 | | |
| (g) | 74 = Average score (5-0) for GVN tax collection VQE7 | M1-30 | | 0 | | |
| (h) | 75 = Average score (5-1) for frequency of village council meetings VQF1 | M1-30 | | 0 | | |
| (i) | 76 = Average score (5-1) for village council activity VQF2 | M1-30 | | 0 | | |
| (j) | 77 = Average score (5-1) for non-Communist political parties VQF3 | M1-30 | | 0 | | |
| (k) | 78 = Average score (5-2) for youth activities VQF4 | M1-30 | | 0 | | |
| (l) | 79 = Average score (5-1) for self-development activities VQN1 | M1-30 | | 0 | | |
| (m) | 80 = Average score (5-1) for GVN service HQF2 | M1-30 | | 0 | | |
| (n) | 81 = Average score (5-1) for GVN service HQF6 | M1-30 | | 0 | | |
| (o) | 82 = GVN compliance index (5-0) | M1-30 | None | 0 | 0 | |

## APPENDIX B

## 1969-1970 SEER VARIABLE LIST

| Fixed Set | Variable | Code | Name |
|---|---|---|---|
| | 1 | PERSASN | Personnel Assigned |
| | 2 | HOSP | Hospital Population |
| | 3 | DESERT | Desertions |
| | 4 | AWOLS | Absent Without Leave |
| | 5 | RFPFA | Days RF/PF Units Attached |
| | 6 | CIDGA | Days CIDG Units Attached |

| Periodic Set 1 | Variable | Code | Name |
|---|---|---|---|
| Subset 1 | 7 | FKEMI | ARVN/VNMC KIA by Enemy Mines |
| | 8 | FKEFIRE | ARVN/VNMC KIA by Enemy Arty/Mortar |
| | 9 | FKEAMB | ARVN/VNMC KIA by Enemy Ambush |
| | 10 | FKESNIP | ARVN/VNMC KIA by Enemy Sniper |
| | 11 | FKFRFT | ARVN/VNMC KIA in Fire-fights |
| | 12 | FKUNK | ARVN/VNMC KIA by Unknown Cause |
| | 13 | FKFRACC | ARVN/VNMC KIA by Friendly Misdirected Fire |
| Subset 2 | 14 | EKFMI | VC/NVA KIA by Friendly Mines |
| | 15 | EKFFIRE | VA/NVA KIA by Friendly Arty/Mortar |
| | 16 | EKFAIR | VC/NVA KIA by Friendly Air Strikes |
| | 17 | EKFAMB | VC/NVA KIA by Friendly Ambush |
| | 18 | EKFSNIP | VC/NVA KIA by Friendly Sniper |
| | 19 | EKFRFT | VC/NVA KIA in Firefights |
| | 20 | EKUNK | VC/NVA KIA by Unknown Cause |
| | 21 | EKENACC | VC/NVA KIA by Enemy Mis-directed Fire |

| Periodic Set 2 | Variable | Code | Name |
|---|---|---|---|
| Subsets A-G | 22-28 | MDCBT | Days on Combat, Non-Pacification |
| Subsets H-N | 29-35 | MDSEC | Days on Security, Non-Pacification |
| Subsets P-V | 36-42 | MDACPAC | Days on Active Pacification |
| Subsets W-0 | 43-47 | MDSTPAC | Days on Static Pacification |
| Subsets 4-6 | 48-50 | MDTNG | Days on Training |

| Periodic Set 3 | Variable | Code | Name |
|---|---|---|---|
| Subset A | 51 | EIDASLT | Enemy Day Assaults |
| | 52 | EINASLT | Enemy Night Assaults |
| | 53 | FWEIASLT | ARVN/VNMC Wounded in Enemy Assaults |
| | 54 | WLEIASLT | ARVN/VNMC Weapons Lost in Enemy Assaults |
| | 55 | WCEIASLT | VC/NVA Weapons Captured in Enemy Assaults |
| | 56 | EEEIASLT | VC/NVA KIA/Captured in Enemy Assaults |
| | 57 | FKEIASLT | ARVN/VNMC KIA in Enemy Assaults |
| Subset B | 58 | EIDAMB | Enemy Day Ambushes |
| | 59 | EINAMB | Enemy Night Ambushes |
| | 60 | FWEIAMB | ARVN/VNMC Wounded in Enemy Ambushes |
| | 61 | WLEIAMB | ARVN/VNMC Weapons Lost in Enemy Ambushes |
| | 62 | WCEIAMB | VC/NVA Weapons Captured in Enemy Ambushes |
| | 63 | EEEIAMB | VC/NVA KIA Captured in Enemy Ambushes |
| | 64 | FKEIAMB | ARVN/VNMC KIA in Enemy Ambushes |
| Subset C+D+E (Standoff Attacks, Sabotage, Terror, and Harassment) | 65 | EIDLCA | Enemy Day "Low Cost Actions" (LCA) |
| | 66 | EINLCA | Enemy Night LCA |
| | 67 | FWEILCA | ARVN/VNMC Wounded in Enemy LCA |

| | 68 | WLEILCA | ARVN/VNMC Weapons Lost in Enemy LCA |
|---|---|---|---|
| | 69 | WCEILCA | VC/NVA Weapons Captured in Enemy LCA |
| | 70 | EEEILCA | VC/NVA KIA/Captured in Enemy LCA |
| | 71 | FKEILCA | ARVN/VNMC KIA in Enemy LCA |

| Periodic Set 4 | Variable | Code | Name |
|---|---|---|---|
| All subsets (A+B+C) | 72 | TARTQ | Total Arty/NGF Support Requests |
| | 73 | TARTC | Total Arty/NGF Support Requests Filled |
| | 74 | GSARTQ | Total TacAir/Gunship Support Request |
| | 75 | GSARTC | Total TacAir/Gunship Support Request Filled |
| | 76 | ARLMQ | Total Air Lift/Medevac Requests |
| | 77 | ARLMC | Total Air Lift/Medevac Requests Filled |
| | 78 | TARTS | Total Arty/NGF Rounds |
| | 79 | TTARS | Total TacAir/Gunship Sorties |
| | 80 | TARLMS | Total Air Lift/Medevac Sorties |

| Periodic Set 5 | Variable | Code | Name |
|---|---|---|---|
| Subset A+C (SHLOD) | 81 | NSHLOD | Short Large Unit Day Offensive Operations |
| | 82 | BLANK | |
| | 83 | EESHLOD | VC/NVA KIA/Captured on SHLOD |
| | 84 | WCSHLOD | VC/NVA Weapons Captured on SHLOD |
| | 85 | WFSHLOD | VC/NVA Cached Weapons Found on SHLOD |
| | 86 | FCSHLOD | ARVN/VNMC KIA+WIA+MIA on SHLOD |
| | 87 | VCISHLOD | VCI KIA/Captured on SHLOD |
| | 88 | CFSHLOD | Food and Ammo Caches Found on SHLOD |

| Subset B+D (SHLON) | 89 | NSHLON | Short Large Unit Night Offensive Operations |
| | 90 | BLANK | |
| | 91 | EESHLON | VC/NVA KIA/Captured on SHLON |
| | 92 | WCSHLON | VC/NVA Weapons Captured on SHLON |
| | 93 | WFSHLON | VC/NVA Cached Weapons Found on SHLON |
| | 94 | FCSHLON | ARVN/VNMC KIA+WIA+MIA on SHLON |
| | 95 | VCISHLON | VCI KIA/Captured on SHLON |
| | 96 | CFSHLON | Food and Ammo Caches Found on SHLON |
| Subset E+1 (SHLDD) | 97 | SHLDD | Short Large Unit Day Defensive Operations |
| | 98 | BLANK | |
| | 99 | EESHLDD | VC/NVA KIA/Captured on SHLDD |
| | 100 | WCSHLDD | VC/NVA Weapons Captured on SHLDD |
| | 101 | WFSHLDD | VC/NVA Cached Weapons Found on SHLDD |
| | 102 | FCSHLDD | ARVN/VNMC KIA+WIA+MIA on SHLDD |
| | 103 | VCISHLDD | VCI KIA/Captured on SHLDD |
| | 104 | CFSHLDD | Food and Ammo Caches Found on SHLDD |
| Subset F+2 (SHLDN) | 105 | SHLDN | Short Large Unit Night Defensive Operations |
| | 106 | BLANK | |
| | 107 | EESHLDN | VC/NVA KIA/Captured on SHLDN |
| | 108 | WCSHLDN | VC/NVA Weapons Captured on SHLDN |
| | 109 | WFSHLDN | VC/NVA Cached Weapons Found on SHLDN |
| | 110 | FCSHLDN | ARVN/VNMC KIA+WIA+MIA on SHLDN |
| | 111 | VCISHLDN | VCI KIA/Captured on SHLDN |
| | 112 | CFSHLDN | Food and Ammo Caches Found on SHLDN |

| Subset G+I (SHSOD) | 113 | SHSOD | Short Small Unit Day Offensive Operations |
| | 114 | BLANK | |
| | 115 | EESHSOD | VC/NVA KIA/Captured on SHSOD |
| | 116 | WCSHSOD | VC/NVA Weapons Captured on SHSOD |
| | 117 | WFSHSOD | VC/NVA Cached Weapons Found on SHSOD |
| | 118 | FCSHSOD | ARVN/VNMC KIA+WIA+MIA on SHSOD |
| | 119 | VCISHSOD | VCI KIA/Captured on SHSOD |
| | 120 | CFSHSOD | Food and Ammo Caches Found on SHSOD |
| Subset H+J (SHSON) | 121 | SHSON | Short Small Unit Night Offensive Operations |
| | 122 | BLANK | |
| | 123 | EESHSON | VC/NVA KIA/Captured on SHSON |
| | 124 | WCSHSON | VC/NVA Weapons Captured on SHSON |
| | 125 | WFSHSON | VC/NVA Cached Weapons Found on SHSON |
| | 126 | FCSHSON | ARVN/VNMC KIA+WIA+MIA on SHSON |
| | 127 | VCISHSON | VCI KIA/Captured on SHSON |
| | 128 | CFSHSON | Food and Ammo Caches Found on SHSON |
| Subset K+3 (SHSDD) | 129 | SHSDD | Short Small Unit Day Defensive Operations |
| | 130 | BLANK | |
| | 131 | EESHSDD | VC/NVA KIA/Captured on SHSDD |
| | 132 | WCSHSDD | VC/NVA Weapons Captured on SHSDD |
| | 133 | WFSHSDD | VC/NVA Cached Weapons Found on SHSDD |
| | 134 | FCSHSDD | ARVN/VNMC KIA+WIA+MIA on SHSDD |
| | 135 | VCISHSDD | VCI KIA/Captured on SHSDD |
| | 136 | CFSHSDD | Food and Ammo Caches Found on SHSDD |

| | | | |
|---|---|---|---|
| Subset M+P (SULO) | 137 | SULO | Sustained Large Unit Offensive Operation |
| | 138 | DASULO | Days on SULO |
| | 139 | EESULO | VC/NVA KIA/Captured on SULO |
| | 140 | WCSULO | VC/NVA Weapons Captured on SULO |
| | 141 | WFSULO | VC/NVA Cached Weapons Found on SULO |
| | 142 | FCSULO | ARVN/VNMC KIA+WIA+MIA on SULO |
| | 143 | VCISULO | VCI KIA/Captured on SULO |
| | 144 | CFSULO | Food and Ammo Caches Found on SULO |
| Subset N+Q (SUSO) | 145 | SUSO | Sustained Small Unit Offensive Operation |
| | 146 | DASUSO | Days on SUSO |
| | 147 | EESUSO | VC/NVA KIA/Captured on SUSO |
| | 148 | WCSUSO | VC/NVA Weapons Captured on SUSO |
| | 149 | WFSUSO | VC/NVA Cached Weapons Found on SUSO |
| | 150 | FCSUSO | ARVN/VNMC KIA+WIA+MIA on SUSO |
| | 151 | VCISUSO | VCI KIA/Captured on SUSO |
| | 152 | CFSUSO | Food and Ammo Caches Found on SUSO |
| Subset R+T (SULD) | 153 | SULD | Sustained Large Unit Defensive Operation |
| | 154 | DASULD | Days on SULD |
| | 155 | EESULD | VC/NVA KIA/Captured on SULD |
| | 156 | WCSULD | VC/NVA Weapons Captured on SULD |
| | 157 | WFSULD | VC/NVA Cached Weapons Found on SULD |
| | 158 | FCSULD | ARVN/VNMC KIA+WIA+MIA on SULD |
| | 159 | VCISULD | VCI KIA/Captured on SULD |
| | 160 | CFSULD | Food and Ammo Caches Found on SULD |

| Subset S+U (SUSDS) | 161 | SUSDS | Sustained Small Unit Defensive and Security Operations |
| | 162 | DASUSDS | Days on SUSDS |
| | 163 | EESUSDS | VC/NVA KIA/Captured on SUSDS |
| | 164 | WCSUSDS | VC/NVA Weapons Captured on SUSDS |
| | 165 | WFSUSDS | VC/NVA Cached Weapons Found on SUSDS |
| | 166 | FCSUSDS | ARVN/VNMC KIA+WIA+MIA on SUSDS |
| | 167 | VCISUSDS | VCI KIA/Captured on SUSDS |
| | 168 | CFSUSDS | Food and Ammo Caches Found on SUSDS |

| Periodic Set 8 | Variables | Code | Name |
| --- | --- | --- | --- |
| Subset A+E (OFFLUO) | 169 | DASHLO | Days on Short Large Unit Offensive Operations |
| | 170 | DASULO | Days on Sustained Large Unit Offensive Operations |
| | 171 | PLEHDLO | Day Platoon Equivalent Contact Hours on OFFLUO |
| | 172 | PLEHNLO | Night Platoon Equivalent Contact Hours on OFFLUO |
| | 173 | NPLTCLO | Platoon Contacts on OFFLUO |
| | 174 | NCOCLO | Company Contacts on OFFLUO |
| | 175 | NBNCLO | Battalion Contacts on OFFLUO |
| Subset B+F (OFFSUO) | 176 | DASHSO | Days on Short Small Unit Offensive Operations |
| | 177 | DASUSO | Days on Sustained Small Unit Offensive Operations |
| | 178 | PLEHDSO | Day Platoon Equivalent Contact Hours on OFFSUO |
| | 179 | PLEHNSO | Night Platoon Equivalent Contact Hours on OFFSUO |
| | 180 | NPLTCSO | Platoon Contacts on OFFSUO |
| | 181 | NCOCSO | Company Contacts on OFFSUO |
| | 182 | NBNCSO | Battalion Contacts on OFFSUO |

| Subset C+G (DEFLUO) | 183 | DASHLD | Days on Short Large Unit Defensive Operations |
| | 184 | DASULD | Days on Sustained Large Unit Defensive Operations |
| | 185 | PLEHDLD | Day Platoon Equivalent Contact Hours on DEFLUO |
| | 186 | PLEHNLD | Night Platoon Equivalent Contact Hours on DEFLUO |
| | 187 | NPLTCLD | Platoon Contacts on DEFLUO |
| | 188 | NCOCLD | Company Contacts on DEFLUO |
| | 189 | NBNCLD | Battalion Contacts on DEFLUO |
| Subset D+H (DEFSUO) | 190 | DASHSD | Days on Short Small Unit Defensive Operations |
| | 191 | DASUSD | Days on Sustained Small Unit Defensive Operations |
| | 192 | PLEHDSD | Day Platoon Equivalent Contact Hours on DEFSUO |
| | 193 | PLEHNSD | Night Platoon Equivalent Contact Hours on DEFSUO |
| | 194 | NPLTCSD | Platoon Contacts on DEFSUO |
| | 195 | NCOCSD | Company Contacts on DEFSUO |
| | 196 | NBNCSD | Battalion Contacts on DEFSUO |
| **Periodic Set 14** | **Variable** | **Code** | **Name** |
| Subset A+B (OFFENSE) | 197 | JMDAUSO | Days US Forces Joint Offensive Operations |
| | 198 | JEKUSO | Enemy KIA on Joint Off Operations with US |
| | 199 | JFKUSO | Fr. KIA on Joint Off Operations with US |
| | 200 | JMDAFWO | Days FWMF Joint Off Operations |
| | 201 | JEKFWO | Enemy KIA on Joint Off Operations with FWMF |
| | 202 | JFKFWO | Fr. KIA on Joint Off Operations with FWMF |
| | 203 | JMDARFO | Days RF Joint Offensive Operations |
| | 204 | JEKRFO | Enemy KIA on Joint Off Operations with RF |
| | 205 | JFKRFO | Fr. KIA on Joint Off Operations with RF |

|  |  |  |  |
|---|---|---|---|
|  | 206 | JMDAMCO | Days VNMC Joint Offensive Operations |
|  | 207 | JEKMCO | Enemy KIA on Joint Off Operations with VNMC |
|  | 208 | JMDANVO | Days VNN Joint Offensive Operations |
|  | 209 | JEKNVO | Enemy KIA on Joint Off Operations with VNN |
|  | 210 | JFKNVO | Fr. KIA on Joint Off Operations with VNN |
| Subset C+D (DEFENSE) | 211 | JMDAUSD | Days US Forces Joint Defensive Operations |
|  | 212 | JEKUSD | Enemy KIA on Joint Defensive Operations with US |
|  | 213 | JFKUSD | Fr. KIA on Joint Defensive Operations with US |
|  | 214 | JMDAFWD | Days FWMF Joint Defensive Operations |
|  | 215 | JEKFWD | Enemy KIA on Joint Defensive Operations with FWMF |
|  | 216 | JFKFWD | Fr. KIA on Joint Defensive Operations with FWMF |
|  | 217 | JMDARFD | Days RF Joint Defensive Operations |
|  | 218 | JEKRFD | Enemy KIA on Joint Defensive Operations with RF |
|  | 219 | JFKRFD | Fr. KIA on Joint Defensive Operations with RF |
|  | 220 | JMDAMCD | Days VNMC Joint Defensive Operations |
|  | 221 | JEKMCD | Enemy KIA on Joint Defensive Operations with VNMC |
|  | 222 | JMDANVD | Days VNN Joint Defensive Operations |
|  | 223 | JEKNVD | Enemy KIA on Joint Defensive Operations with VNN |
|  | 224 | JFKNVD | Friendly KIA on Joint Defensive Operations with VNN |

## APPENDIX C

### 1968 SEER VARIABLE LIST

Periodic Set 1 (Field 3 - Field 2) + 1 Mission Days

| | |
|---|---|
| 1. | Subset A = Days on Combat, Non-Pac. |
| 2. | Subset B = Days on Active Pac. |
| 3. | Subset C = Days on Security, Non-Pac. |
| 4. | Subset D = Days on Static Pac. |
| 5. | Subset F = Days on Training |

Periodic Set 2 Field 2 = No. of Joint/Combined Operations

| | |
|---|---|
| 6. | Subset A = PF/ARVN Operations |
| 7. | Subset B = RF/ARVN Operations |
| 8. | Subset C = ARVN/RF/PF Operations |
| 9. | Subset D = ARVN/US/FW Operations |
| 10. | Subset E = ARVN/FW Operations |
| 11. | Subset F = ARVN/US Operations |
| 12. | Subset G = ABN/ARVN Operations |
| 13. | Subset H = VNM/ARVN Operations |
| 14. | Subset I = ABN/US Operations |
| 15. | Subset J = VNM/US or FW Operations |
| 16. | Subset K = ABN/RF or PF Operations |

Periodic Set 3 Field 2 = Enemy KIA

| | |
|---|---|
| 17. | Subset A = Enemy KIA by Friendly Mines |
| 18. | Subset B = Enemy KIA by Friendly Artillery Mortar |
| 19. | Subset C = Enemy KIA by Air Strikes |
| 20. | Subset D = Enemy KIA in Firefights |
| 21. | Subset E = Enemy KIA by Sniper |
| 22. | Subset F = Enemy KIA by Ambush |
| 23. | Subset G = Enemy KIA by Unknown Cause |

Periodic Set 4 Field 2 = Friendly KIA

| | |
|---|---|
| 24. | Subset A = Friendly KIA by Enemy Mines |
| 25. | Subset B = Friendly KIA by Enemy Artillery/Mortar |
| 26. | Subset C = Friendly KIA by Friendly Misdirected Fire |
| 27. | Subset D = Friendly KIA in Firefights |
| 28. | Subset E = Friendly KIA by Sniper |
| 29. | Subset F = Friendly KIA by Ambush |
| 30. | Subset G = Friendly KIA by Unknown Cause |

Periodic Set 5 Field 4 sorted by Fields 1, 2, & 3 provides:

Field

| | 1 | 2 | 3 | | |
|---|---|---|---|---|---|
| 31. | A | 01 | A | = | Number of Large Combat, Non-Pac Operations Controlled |
| 32. | A | 01 | B | = | Number of Large Active Pac Operations Controlled |
| 33. | A | 01 | C | = | Number of Large Security, Non-Pac Operations Controlled |
| 34. | A | 01 | D | = | Number of Large Static Pac Operations Controlled |
| 35. | A | 01 | F | = | Number of Large Training Operations Controlled |
| 36. | A | 02 | A | = | Number of Large Combat, Non-Pac Operations Participated in |
| 37. | A | 02 | B | = | Number of Large Active Pac Operations Participated in |
| 38. | A | 02 | C | = | Number of Large Security, Non-Pac Operations Participated in |
| 39. | A | 02 | D | = | Number of Large Static Pac Operations Participated in |
| 40. | A | 02 | F | = | Number of Large Training Operations Participated in |
| 41. | A | 03 | A | = | Number of Large Combat, Non-Pac Operations Day Contacts |
| 42. | A | 03 | B | = | Number of Large Active Pac Operations Day Contacts |
| 43. | A | 03 | C | = | Number of Large Security, Non-Pac Operations Day Contacts |
| 44. | A | 03 | D | = | Number of Large Static Pac Operations Day Contacts |
| 45. | A | 03 | F | = | Number of Large Training Operations Day Contacts |
| 46. | A | 04 | A | = | Number of Large Combat, Non-Pac Operations Night Contacts |
| 47. | A | 04 | B | = | Number of Large Active Pac Operations Night Contacts |
| 48. | A | 04 | C | = | Number of Large Security, Non-Pac Operations Night Contacts |
| 49. | A | 04 | D | = | Number of Large Static Pac Operations Night Contacts |
| 50. | A | 04 | F | = | Number of Large Training Operations Night Contacts |
| 51. | A | 05 | A | = | Battalion Days on Large Combat, Non-Pac Operations |
| 52. | A | 05 | B | = | Battalion Days on Large Active Pac Operations |
| 53. | A | 05 | C | = | Battalion Days on Large Security, Non-Pac Operations |
| 54. | A | 05 | D | = | Battalion Days on Large Static Pac Operations |
| 55. | A | 05 | F | = | Battalion Days on Large Training Operations |
| 56. | A | 06 | A | = | Enemy KIA on Large Combat, Non-Pac Operations = EKLCBT |
| 57. | A | 06 | B | = | EKLACPAC |
| 58. | A | 06 | C | = | EKLSEC |
| 59. | A | 06 | D | = | EKLSTPAC |
| 60. | A | 06 | F | = | EKLTNG |
| 61. | A | 07 | A | = | Enemy Captured on Large Combat, Non-Pac Operations = ECLCBT |

| 62. | A | 07 | B | = | ECLACPAC |
|-----|---|----|---|---|----------|
| 63. | A | 07 | C | = | ECLSEC |
| 64. | A | 07 | D | = | ECLSTPAC |
| 65. | A | 07 | F | = | ECLTNG |
| 66. | A | 08 | A | = | Enemy Weapons Captured on Large Combat, Non-Pac Operations = WCLCBT |
| 67. | A | 08 | B | = | WCLACPAC |
| 68. | A | 08 | C | = | WCLSEC |
| 69. | A | 08 | D | = | WCLSTPAC |
| 70. | A | 08 | F | = | WCLTNG |
| 71. | A | 09 | A | = | Friendly KIA on Large Combat, Non-Pac Operations = FKLCBT |
| 72. | A | 09 | B | = | FKLACPAC |
| 73. | A | 09 | C | = | FKLSEC |
| 74. | A | 09 | D | = | FKLSTPAC |
| 75. | A | 09 | F | = | FKLTNG |
| 76. | A | 10 | A | = | Friendly MIA on Large Combat, Non-Pac Operations = FMLCBT |
| 77. | A | 10 | B | = | FMLACPAC |
| 78. | A | 10 | C | = | FMLSEC |
| 79. | A | 10 | D | = | FMLSTPAC |
| 80. | A | 10 | F | = | FMLTNG |
| 81. | A | 11 | A | = | Friendly Weapons Lost = WLLCBT |
| 82. | A | 11 | B | = | WLLACPAC |
| 83. | A | 11 | C | = | WLLSEC |
| 84. | A | 11 | D | = | WLLSTPAC |
| 85. | A | 11 | F | = | WLLTNG |
| 86. | B | 01 | A | = | Number of Small Combat, Non-Pac Operations Conducted = NCOCBT |
| 87. | C | 01 | A | = | NPLCBT |
| 88. | B | 01 | B | = | NCOACPAC |
| 89. | C | 01 | B | = | NPLACPAC |
| 90. | B | 01 | C | = | NCOSEC |
| 91. | C | 01 | C | = | NPLSEC |
| 92. | B | 01 | D | = | NCOSTPAC |
| 93. | C | 01 | D | = | NPLSTPAC |
| 94. | B | 01 | F | = | NCOTNG |
| 95. | C | 01 | F | = | NPLTNG |
| 96. | B | 02 | A | = | Number of Small Combat, Non-Pac Operations Day Contacts = DCCOCBT |
| 97. | C | 02 | A | = | DCPLCBT |
| 98. | B | 02 | B | = | DCCOACPAC |
| 99. | C | 02 | B | = | DCPLACPAC |

| | | | | | |
|---|---|---|---|---|---|
| 100. | B | 02 | C | = | DCCOSEC |
| 101. | C | 02 | C | = | DCPLSEC |
| 102. | B | 02 | D | = | DCCOSTPAC |
| 103. | C | 02 | D | = | DCPLSTPAC |
| 104. | B | 02 | F | = | DCCOTNG |
| 105. | C | 02 | F | = | DCPLTNG |
| 106. | B | 03 | A | = | Number of Small Combat, Non-Pac Operations Night Contacts = NCCOCBT |
| 107. | C | 03 | A | = | NCPLCBT |
| 108. | B | 03 | B | = | NCCOACPAC |
| 109. | C | 03 | B | = | NCPLACPAC |
| 110. | B | 03 | C | = | NCCOSEC |
| 111. | C | 03 | C | = | NCPLSEC |
| 112. | B | 03 | D | = | NCCOSTPAC |
| 113. | C | 03 | D | = | NCPLSTPAC |
| 114. | B | 03 | F | = | NCCOTNG |
| 115. | C | 03 | F | = | NCPLTNG |
| 116. | B | 04 | A | = | Enemy KIA on Small Combat, Non-Pac Operations = EKCOCBT |
| 117. | C | 04 | A | = | EKPLCBT |
| 118. | B | 04 | B | = | EKCOACPAC |
| 119. | C | 04 | B | = | EKPLACPAC |
| 120. | B | 04 | C | = | EKCOSEC |
| 121. | C | 04 | C | = | EKPLSEC |
| 122. | B | 04 | D | = | EKCOSTPAC |
| 123. | C | 04 | D | = | EKPLSTPAC |
| 124. | B | 04 | F | = | EKCOTNG |
| 125. | C | 04 | F | = | EKPLTNG |
| 126. | B | 05 | A | = | Number of Enemy Captured on Small Combat, Non-Pac Operations = ECCOCBT |
| 127. | C | 05 | A | = | ECPLCBT |
| 128. | B | 05 | B | = | ECCOACPAC |
| 129. | C | 05 | B | = | ECPLACPAC |
| 130. | B | 05 | C | = | ECCOSEC |
| 131. | C | 05 | C | = | ECPLSEC |
| 132. | B | 05 | D | = | ECCOSTPAC |
| 133. | C | 05 | D | = | ECPLSTPAC |
| 134. | B | 05 | F | = | ECCOTNG |
| 135. | C | 05 | F | = | ECPLTNG |
| 136. | B | 06 | A | = | Number of Enemy Weapons Captured on Small Combat Non-Pac Operations = WCCOCBT |
| 137. | C | 06 | A | = | WCPLCBT |
| 138. | B | 06 | B | = | WCCOACPAC |

| 139. | C | 06 | B | = | WCPLACPAC |
|------|---|----|----|---|-----------|
| 140. | B | 06 | C | = | WCCOSEC |
| 141. | C | 06 | C | = | WCPLSEC |
| 142. | B | 06 | D | = | WCCOSTPAC |
| 143. | C | 06 | D | = | WCPLSTPAC |
| 144. | B | 06 | F | = | WCCOTNG |
| 145. | C | 06 | F | = | WCPLTNG |
| 146. | B | 07 | A | = | Friendly KIA on Small Combat, Non-Pac Operations = FKCOCBT |
| 147. | C | 07 | A | = | FKPLCBT |
| 148. | B | 07 | B | = | FKCOACPAC |
| 149. | C | 07 | B | = | FKPLACPAC |
| 150. | B | 07 | C | = | FKCOSEC |
| 151. | C | 07 | C | = | FKPLSEC |
| 152. | B | 07 | D | = | FKCOSTPAC |
| 153. | C | 07 | D | = | FKPLSTPAC |
| 154. | B | 07 | F | = | FKCOTNG |
| 155. | C | 07 | F | = | FKPLTNG |
| 156. | B | 08 | A | = | Friendly MIA on Small Combat, Non-Pac Operations = FMCOCBT |
| 157. | C | 08 | A | = | FMPLCBT |
| 158. | B | 08 | B | = | FMCOACPAC |
| 159. | C | 08 | B | = | FMPLACPAC |
| 160. | B | 08 | C | = | FMCOSEC |
| 161. | C | 08 | C | = | FMPLSEC |
| 162. | B | 08 | D | = | FMCOSTPAC |
| 163. | C | 08 | D | = | FMPLSTPAC |
| 164. | B | 08 | F | = | FMCOTNG |
| 165. | C | 08 | F | = | FMPLTNG |
| 166. | B | 09 | A | = | Friendly Weapons Lost on Small Combat, Non-Pac Operations = WLCOCBT |
| 167. | C | 09 | A | = | WLPLCBT |
| 168. | B | 09 | B | = | WLCOACPAC |
| 169. | C | 09 | B | = | WLPLACPAC |
| 170. | B | 09 | C | = | WLCOSEC |
| 171. | C | 09 | C | = | WLPLSEC |
| 172. | B | 09 | D | = | WLCOSTPAC |
| 173. | C | 09 | D | = | WLPLSTPAC |
| 174. | B | 09 | F | = | WLCOTNG |
| 175. | C | 09 | F | = | WLPLTNG |
| 176. | F | 01 | A | = | Battalion Days on Small Combat, Non-Pac Operations |
| 177. | F | 01 | B | = | Battalion Days on Small Active Pacification Operations |
| 178. | F | 01 | C | = | Battalion Days on Small Security, Non-Pac Operations |

179. F  01  D  =  Battalion Days on Small Static Pacification Operations
180. F  01  F  =  Battalion Days on Small Training Operations

Periodic Set 6 Enemy Incidents and Friendly Missions

  give nothing any better than data from H records of SEAPRS

## APPENDIX D

## MERGED SEER VARIABLE LIST

### File No. (s)

| New No. | Name | 1968 | 1969-70 | Comment |
|---|---|---|---|---|
| 1 | BATTNS-2A | None | None | Create by counting the battalions and parts of battalions allocated to each province |
| 2 | PERSASN | None | 1 | Create for 1968 by multiplying 1969-1970 averages by new V1 |
| 3 | DESERT | None | 3 | Months 25-36 only |
| 4 | EKFFIRE | 18 | 15 | |
| 5 | EKFAIR | 19 | 16 | |
| 6 | EKFSPTAR | 18+19 | 15+16 | Enemy killed by supporting arms fire (artillery + air) |
| 7 | EKFRFT | 20 | 19 | Firefight outcomes |
| 8 | EKFSN/AM | 21+22 | 17+18 | Enemy killed by snipers plus ambush |
| 9 | EKFATOT | $\dfrac{17+18+19+20+21+22+23}{14+15+16+17+18+19+20}$ | | |
| 10 | EKEMI | 24 | 7 | |
| 11 | FKEFIRE | 25 | 8 | Standoff attacks |
| 12 | FKFRACC | 26 | 13 | Friendly KIA by misdirected supporting arms fire |
| 13 | FKFRFT | 27 | 11 | Firefight outcomes |

File No. (s)

| New No. | Name | 1968 | 1969-70 | Comments |
|---|---|---|---|---|
| 14 | FKESN/AM | 28+29 | 9+10 | Snipers plus ambush |
| 15 | FKEATOT | 24+25+27+28+29+30 / 7+8+9+10+11+12 | | |

Question: Are some of the foregoing redundant to SEAPRS H-type records? If so, which is best?

| New No. | Name | 1968 | 1969-70 | Comments |
|---|---|---|---|---|
| 16 | NLUOFF | 36+37 | 81+89+137 | |
| 17 | NLUDEF | 38+39 | 97+105+153 | |
| 18 | NSUOFF | 86+87+88+89 | 113+121+145 | The definition of small |
| 19 | NSUDEF | 90+91+92+93 | 129+161 | operation for 1968 may |
| 20 | DES/AWOL | None | 3+4 | be different from 1969-1970. |
| 21 | CLUOFF | 41+42+46+47 | 173+174+175 | |
| 22 | CLUDEF | 43+44+48+49 | 187+188+189 | |
| 23 | CSUOFF | 96+97+98+99+106+107+108+109 / 180+181+182 | | |
| 24 | CSUDEF | 100+101+102+103+110+111+112+113 / 194+195+196 | | |
| 25 | DALUOFF | 51+52 | 169+170 | |
| 26 | DALUDEF | 53+54 | 183+184 | |
| 27 | DASUOFF | 176+177 | 176+177 | This may be wrong |
| 28 | DASUDEF | 178+179 | 190+191 | This may be wrong |
| 29 | PLEHDLO | ?41+42? | 171 | 1968 is number of contacts only |
| 30 | PLEHNLO | ?46+47? | 172 | 1968 is number of contacts only |
| 31 | PLEHDLD | ?43+44? | 185 | 1968 is number of contacts only |
| 32 | PLEHNLD | ?48+49? | 186 | 1968 is number of contacts only |
| 33 | FLEHDSO | ?96+97+98+99? | 178 | 1968 is number of contacts only |
| 34 | PLEHNSO | ?106+107+108+109? | 179 | 1968 is number of contacts only |
| 35 | PLEHDSD | ?100+101+102+103? | 192 | 1968 is number of contacts only |

## File No.(s)

| New No. | Name | 1968 | 1969-70 | Comment |
|---------|------|------|---------|---------|
| 36 | PLEHNSO | ?110+111+112+113? | 193 | 1968 is number of contacts only |
| 37 | EELUOFF | 56+57+61+62 | 83+87+91+95+139+143 | |
| 38 | EELUDEF | 58+59+63+64 | 99+103+107+111+155+159 | |
| 39 | EESUOFF | 116+117+118+119+126+127+128+129 115+119+123+127+147+151 | | |
| 40 | EESUDEF | 120+121+122+123+130+131+132+133 131+135+163+167 | | |
| 41 | WCLUOFF | 66+67 | 84+92+140 | |
| 42 | WCLUDEF | 68+69 | 100+108+156 | |
| 43 | WCSUOFF | 136+137+138+139 | 116+124+148 | |
| 44 | WCSUDEF | 140+141+142+143 | 132+164 | |
| 45 | FCLUOFF | 71+72+76+77 | 86+94+142 | 1968 does not include wounded data. |
| 46 | FCLUDEF | 73+74+78+79 | 102=110+158 | " " |
| 47 | FCSUOFF | 146+147+148+149+156+157+158+159 118+126+150 | | " " |
| 48 | FCSUDEF | 150+151+152+153+160+161+162+163 134+166 | | " " |
| 49 | JMDAUS | 11 | 197+211 | |
| 50 | JEKUS | None | 198+212 | |
| 51 | JFKUS | None | 199+213 | |
| 52 | JMDAFW | 10 | 200+214 | |
| 53 | JEKFW | None | 201+215 | |
| 54 | JFKFW | None | 202+216 | |
| 55 | JMDARF | 7 | 203+217 | |
| 56 | JEKRF | None | 204+218 | |
| 57 | JFKRF | None | 205+219 | |
| 58 | JMDAMC | 13 | 206+220 | |
| 59 | JEKMC | None | 207+221 | |
| 60 | AWOLS | None | 4 | Months 25-36 only |
| 61 | RFPFA | None | 5 | Months 25-36 only |
| 62 | TARTC | None | 73 | |
| 63 | GSARTC | None | 75 | |
| 64 | ARLMC | None | 77 | |
| 65 | TARTS | None | 78 | |
| 66 | TTARS | None | 79 | |
| 67 | TARLMS | None | 80 | |
| 68 | CACHES | None | 168+88+96+104+112+120+128+136+144++152+160 | |

## APPENDIX E

## PROCEDURE FOR CONSTRUCTING
## PROVINCE SEER DATA FILE

Construct a monthly location file consisting of the days assigned to offensive, defensive, or training missions in each province in which the battalion operated during the month.

|  | $P_a$ | $P_b$ | $P_n$ |
|---|---|---|---|
| Days on offense | $a_o$ | $b_o$ | $n_o$ |
| Days on defense | $a_d$ | $b_d$ | $n_d$ |
| Days on training | $a_t$ | $b_t$ | $n_t$ |

For 1968 data:

Identify the locations from periodic set 1, fourth field. For each location:

Days on offense equals the sum of end date (plus one) minus start date [field 3(+1) - field 2] where the mission type (field 1) is A and/or B. Days on defense equals the sum of end date (plus one) minus start date [field 3(+1) - field 2] where the mission type (field 1) is C, and/or D, and/or E. Days on training equals the end date (plus one) minus start date [field 3(+1) - field 2] where the mission type (field 1) is F.

For 1969-70 data:

Identify the locations from periodic set 2, sixth field. For each location:

Days on offense equals the sum of days assigned (field 4) where the mission type (field 1) is A through G and/or P through V. Days on defense equals the sum of days assigned (field 4) where the mission type (field 1) is H through N, and/or W through O, and/or 1 through 3. Days on training equals the sum of days assigned (field 4) where the mission type (field 1) is 4 through 9.

| Variable | Transformation |
|---|---|

1  $V1 \times (a_o + a_d + a_t) \div 30$ for province $P_a$,

$V1 \times (b_o + b_d + b_t) \div 30$ for province $P_b$,

$V1 \times (n_o + n_d + n_t) \div 30$ for province $P_n$,

2  $V2 \times (a_o + a_d + a_t) \div 30$ for province $P_a$,
etc.

3  $V3 \times (a_o + a_d + a_t) \div 30$ for province $P_a$,
etc.

4

$$V4 \times \frac{a_o}{a_o + b_o + n_o} \times \frac{V37 + V39}{V37 + V38 + V39 + V40} + V4 \times \frac{a_d}{a_d + b_d + n_d} \times \frac{V38 + V40}{V37 + V38 + V39 + V40}$$

for province $P_a$,

$$V4 \times \frac{b_o}{a_o + b_o + n_o} \times \frac{V37 + V39}{V37 + V38 + V39 + V40} + V4 \times \frac{b_d}{a_d + b_d + n_d} \times \frac{V38 + V40}{V37 + V38 + V39 + V40}$$

for province $P_b$,

etc.

5  $V5 \times$ the same ratios used for V4 for each province

6  $V6 \times$ (same as above)

7  $V7 \times$ (same as above)

8  $V8 \times$ (same as above)

9  $V9 \times$ (same as above)

10

$$V10 \times \frac{a_o}{a_o + b_o + n_o} \times \frac{V45 + V47}{V45 + V46 + V47 + V48} + V10 \times \frac{a_d}{a_d + b_d + n_d} \times \frac{V46 + V48}{V45 + V46 + V47 + V48}$$

for province $P_a$,

etc.

| Variable | Transformation |
|---|---|
| 11 | V11 x the same ratios used for V10 for each province. |
| 12 | V12 x (same as above) |
| 13 | V13 x (same as above) |
| 14 | V14 x (same as above) |
| 15 | V15 x (same as above) |
| 16 | $V16 \times (\frac{a_o}{a_o + b_o + n_o})$ , etc. for each province. |
| 17 | $V17 \times (\frac{a_d}{a_d + b_d + n_d})$ , etc. for each province |
| 18 | V18 x the same ratios used for V16. |
| 19 | V19 x the same ratios used for V17. |
| 20 | V20 x the same ratios used for V1. |
| 21 | $V21 \times (\frac{a_o}{a_o + b_o + n_o})$ , etc. for each province. |
| 22 | $V22 \times (\frac{a_d}{a_d + b_d + n_d})$ , etc. for each province. |
| 23 | $V23 \times (\frac{a_o}{a_o + b_o + n_o})$ , etc. for each province. |
| 24 | $V24 \times (\frac{a_d}{a_d + b_d + n_d})$ , etc. for each province. |
| 25 | $V25 \times (\frac{a_o}{a_o + b_o + n_o})$ , etc. for each province. |
| 26 | $V26 \times (\frac{a_d}{a_d + b_d + n_d})$ , etc. for each province. |
| 27 | $V27 \times (\frac{a_o}{a_o + b_o + n_o})$ , etc. for each province. |
| 28 | $V28 \times (\frac{a_d}{a_d + b_d + n_d})$ , etc. for each province. |

| Variable | Transformation |
|---|---|
| 29 | $V29 \times \left( \dfrac{a_o}{a_o + b_o + n_o} \right)$ , etc. for each province. |
| 30 | $V30 \times \left( \dfrac{a_o}{a_o + b_o + n_o} \right)$ , etc. for each province. |
| 31 | $V31 \times \left( \dfrac{a_d}{a_d + b_d + n_d} \right)$ , etc. for each province. |
| 32 | $V32 \times \left( \dfrac{a_d}{a_d + b_d + n_d} \right)$ , etc. for each province. |
| 33 | $V33 \times$ same ratios used for V29, etc. |
| 34 | V34 (same as above). |
| 35 | $V35 \times$ same ratios used for V31, etc. |
| 36 | $V36 \times$ (same as above). |
| 37 | $V37 \times \left( \dfrac{a_o}{a_o + b_o + n_o} \right)$ , etc. for each province. |
| 38 | $V38 \times \left( \dfrac{a_d}{a_d + b_d + n_d} \right)$ , etc. for each province. |
| 39 | $V39 \times$ same ratios used for V37, 21, 23, 25, 27, 29, 30, 33 |
| 40 | $V40 \times$ same ratios used for V38, 22, 24, 26, 28, 31, 32, 35 |
| 41 | $V41 \times$ same ratios used for V37 |
| 42 | $V42 \times$ same ratios used for V38 |
| 43 | $V43 \times$ same ratios used for V37 |
| 44 | $V44 \times$ same ratios used for V38. |
| 45 | $V45 \times$ same ratios used for V37. |
| 46 | $V46 \times$ same ratios used for V38. |
| 47 | $V47 \times$ same ratios used for V37 |
| 48 | $V48 \times$ same ratios used for V38. |
| 49 | $V49 \times$ same ratios used for V37. |
| 50 | $V50 \times$ same ratios used for V37. |

| Variable | Transformation |
|---|---|
| 51 | V51 x same ratios used for V37. |
| 52 | V52 x same ratios used for V37. |
| 53 | V53 x same ratios used for V37. |
| 54 | V54 x same ratios used for V37. |
| 55 | V55 x $\dfrac{a_o + a_d}{a_o + a_d + b_o + b_d + n_o + n_d}$ , etc. for each province. |
| 56 | V56 x same ratios used for V55. |
| 57 | V57 x same ratios used for V55. |
| 58 | V58 x same ratios used for V37. |
| 59 | V59 x same ratios used for V37. |
| 60 | V60 x same ratios used for V1, 2 and 3 |
| 61 | V61 x same ratios used for V55. |
| 62 | V62 x same ratios used for V55. |
| 63 | V63 x same ratios used for V55. |
| 64 | V64 x same ratios used for V55. |
| 65 | V65 x same ratios used for V55. |
| 66 | V66 x same ratios used for V55. |
| 67 | V67 x same ratios used for V55. |
| 68 | V68 x same ratios used for V37. |

Summary of transformation ratios:

1.  Percent of month spent in each province equals:

$$\frac{a_o + a_d + a_t}{30} ,$$

$$\frac{b_o + b_d + b_t}{30} , \text{ etc.}$$

2.  Percent of offensive time spent in each province equals:

$$\frac{a_o}{a_o+b_o+n_o},$$

$$\frac{b_o}{a_o+b_o+n_o}, \text{ etc.}$$

3.  Percent of defensive time spent in each province equals:

$$\frac{a_d}{a_d+b_d+n_d},$$

$$\frac{b_d}{a_d+b_d+n_d}, \text{ etc.}$$

4.  Percent of non-training/rehabilitation time spent in each province equals:

$$\frac{a_o+a_d}{a_o+a_d+b_o+b_d+n_o+n_d},$$

$$\frac{b_o+b_d}{a_o+a_d+b_o+b_d+n_o+n_d}, \text{ etc.}$$

5.  Percent of enemy casualties attributed to offensive operations equals:

$$\frac{V37+V39}{V37+V38+V39+V40}$$

6.  Percent of enemy casualties attributed to defensive operations equals:

$$\frac{V38+V40}{V37+V38+V39+V40}$$

7.  Percent of friendly casualties attributed to offensive operations equals:

$$\frac{V45+V47}{V45+V46+V47+V48}$$

8.  Percent of friendly casualties attributed to defensive operations equals:

$$\frac{V46+V48}{V45+V46+V47+V48}$$

## APPENDIX F

## QHES CANDIDATE VARIABLE LIST

This appendix includes a list of candidate variables transferred from the original QHES file for use in this study. In creating indices of these variables for working files, neither the variables defining Not Applicable nor Unknown responses were employed, nor were several of the questions that proved either irrelevant or redundant in subsequent analyses. In building a file of QHES index variables for hamlet-level analysis, 31 additional QHES questions were transferred from the original file.

| Position | Variable | Code | Name |
|---|---|---|---|
| 12-19 | 1 | HQB1-0 | No known or suspected VC1 |
| 20-27 | 2 | HQB1-1 | Sporadic covert VC1 activity, little or no overt VC1 activity |
| 28-35 | 3 | HQB1-2 | Regular covert VC1 activity, sporadic overt VC1 activity, generally at night |
| 36-43 | 4 | HQB1-3 | VC1 is the primary authority in the hamlet at night, but most operate covertly in the day |
| 44-51 | 5 | HQB1-4 | VC1 is the primary authority in the hamlet both day and night |
| 76-83 | 6 | HQB1-8 | Question is not applicable |
| 84-91 | 7 | HQB1-9 | VC1 activity cannot be judged |
| 12-19 | 8 | HQB2-0 | The enemy does not tax hamlet households |
| 20-27 | 9 | HQB2-1 | The enemy taxes hamlet households sporadically |
| 28-35 | 10 | HQB2-2 | The enemy taxes hamlet households regularly and systematically |
| 76-83 | 11 | HQB2-8 | Question is not applicable |
| 84-91 | 12 | HQB2-9 | Enemy taxation cannot be judged |
| 12-19 | 13 | HQB3-0 | No hamlet households have a member or members who have participated, by coercion or otherwise, in enemy-organized non-military group activities (public meetings, demonstrations, work gangs, etc.) |
| 20-27 | 14 | HQB3-1 | A few (< 10%) hamlet households have members who have participated in enemy-organized, non-military group activities |

| Position | Variable | Code | Name |
|---|---|---|---|
| 28-35 | 15 | HQB3-2 | Some (10-40%) hamlet households have members who have participated in enemy-organized, non-military group activities |
| 36-43 | 16 | HQB3-3 | Many (41-90%) hamlet households have members who have participated in enemy-organized, non-military group activities |
| 44-51 | 17 | HQB3-4 | Nearly all (> 91%) hamlet households have members who have participated in enemy-organized, non-military group activities |
| 76-83 | 18 | HQB3-8 | Question is not applicable |
| 84-91 | 19 | HQB3-9 | Participation in enemy-organized, non-military group activities cannot be judged |
| 12-19 | 20 | HQC5-0 | No hamlet households are located in areas where GVN administrative personnel are unable to move about with relative freedom during daylight hours |
| 20-27 | 21 | HQC5-1 | A few (< 10%) hamlet households are inaccessible during daylight hours |
| 28-35 | 22 | HQC5-2 | Some (10-40%) hamlet households are inaccessible during daylight hours |
| 36-43 | 23 | HQC5-3 | Many (41-90%) hamlet households are inaccessible during daylight hours |
| 44-51 | 24 | HQC5-4 | Nearly all (> 90%) hamlet households are inaccessible during daylight hours |
| 76-83 | 25 | HQC5-8 | Question is not applicable |
| 84-91 | 26 | HQC5-9 | Household location accessibility to GVN administrative personnel cannot be judged |
| 12-19 | 27 | HQC6-0 | No hamlet households have a member active in the PSDF |
| 20-27 | 28 | HQC6-1 | A few (< 10%) hamlet households have members active in the PSDF |
| 28-35 | 29 | HQC6-2 | Some (10-40%) hamlet households have members active in the PSDF |
| 36-43 | 30 | HQC6-3 | Many (41-90%) hamlet households have members active in the PSDF |
| 44-51 | 31 | HQC6-4 | Nearly all (> 90%) hamlet households have members active in the PSDF |
| 76-83 | 32 | HQC6-8 | Question is not applicable |
| 84-91 | 33 | HQC6-9 | Activity in PSDF cannot be judged |
| 12-19 | 34 | HQC7-0 | There is no organized PSDF |
| 20-27 | 35 | HQC7-1 | There is an organized, inactive PSDF |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 28-35 | 36 | HQC7-2 | The PSDF drills and trains only |
| 36-43 | 37 | HQC7-3 | The PSDF is organized of only non-military activity |
| 44-51 | 38 | HQC7-4 | The PSDF stands armed guard |
| 52-59 | 39 | HQC7-5 | The PSDF conducts armed patrols and stands guard |
| 76-83 | 40 | HQC7-8 | Question is not applicable |
| 84-91 | 41 | HQC7-9 | PSDF activity cannot be judged |
| 12-19 | 42 | HQD2-0 | GVN authorities do not enforce the laws during the day |
| 20-27 | 43 | HQD2-1 | GVN law enforcement during the day is marginal |
| 28-35 | 44 | HQD2-2 | GVN law enforcement during the day is adequate |
| 76-83 | 45 | HQD2-8 | Question is not applicable |
| 84-91 | 46 | HQD-29 | Daytime GVN law enforcement cannot be judged |
| 12-19 | 47 | HQE1-0 | There is no GVN hamlet chief |
| 20-27 | 48 | HQE1-1 | There is an appointed GVN hamlet chief |
| 28-35 | 49 | HQE1-2 | There is an elected GVN hamlet chief |
| 76-83 | 50 | HQE1-8 | Question is not applicable |
| 84-91 | 51 | HQE1-9 | Hamlet chief status cannot be judged |
| 12-19 | 52 | HQE2-0 | The GVN hamlet chief is not present in the hamlet |
| 20-27 | 53 | HQE2-1 | The GVN hamlet chief is only irregularly present in the hamlet |
| 28-35 | 54 | HQE2-2 | The GVN hamlet chief is regularly present in the hamlet during the day |
| 36-43 | 55 | HQE2-3 | The GVN hamlet chief is regularly present in the hamlet day and night |
| 76-83 | 56 | HQE2-8 | Question is not applicable |
| 84-91 | 57 | QHE2-9 | Hamlet chief presence cannot be judged |
| 12-19 | 58 | HQE3-0 | Civil disputes are settled by VC1 officials |
| 20-27 | 59 | HQE3-1 | Civil disputes are settled by religious leaders, elders, or prominent individuals |
| 28-35 | 60 | HQE3-2 | Civil disputes are settled by GVN officials |
| 76-83 | 61 | HQE3-8 | Question is not applicable |
| 84-91 | 62 | HQE3-9 | Civil dispute settlement cannot be judged |
| 12-19 | 63 | HQE5-0 | Hamlet not represented on village council |
| 20-27 | 64 | HQE5-1 | Hamlet is represented on village council |
| 76-83 | 65 | HQE5-8 | Hamlet representation not applicable |

| Position | Variable | Code | Name |
|---|---|---|---|
| 84-91 | 66 | HQE5-9 | Not able to judge hamlet representation on village council |
| 12-19 | 67 | HQF1-0 | No households in hamlet with member in enemy service |
| 20-27 | 68 | HQF1-1 | A few hamlet households with member in enemy service |
| 28-35 | 69 | HQF1-2 | Some hamlet households with members in enemy service |
| 36-43 | 70 | HQF1-3 | Many hamlet households with members in enemy service |
| 44-51 | 71 | HQF1-4 | All hamlet households have member in enemy service |
| 76-83 | 72 | HQF1-8 | Hamlet households with member in enemy service not applicable |
| 84-91 | 73 | HQF1-9 | Households in hamlet with member in enemy service unknown |
| 12-19 | 67 | HQF1-0 | No households in hamlet with member in enemy service |
| 20-27 | 68 | HQF1-1 | A few hamlet households with member in enemy service |
| 28-35 | 69 | HQF1-2 | Some hamlet households with members in enemy service |
| 36-43 | 70 | HQF1-3 | Many hamlet households with member in enemy service |
| 44-51 | 71 | HQF1-4 | All hamlet households have member in enemy service |
| 76-83 | 72 | HQF1-8 | Hamlet households with member in enemy service not applicable |
| 84-91 | 73 | HQF1-9 | Households in hamlet with member in enemy service unknown |
| 12-19 | 74 | HQF2-0 | No hamlet households with member in GVN service |
| 20-27 | 75 | HQF2-1 | A few hamlet households with members in GVN service |
| 28-35 | 76 | HQF2-2 | Some hamlet households with members in GVN service |
| 36-43 | 77 | HQF2-3 | Many hamlet households with members in GVN service |
| 44-51 | 78 | HQF2-4 | All hamlet households with member in GVN service |

| Position | Variable | Code | Name |
|---|---|---|---|
| 76-83 | 79 | HQF2-8 | Membership in GVN service not applicable |
| 84-91 | 80 | HQF2-9 | Membership in GVN service unknown |
| 12-19 | 81 | HQF5-0 | RF cadre presence had negative effect on hamlet |
| 20-27 | 82 | HQF5-1 | RD cadre presence had no effect on hamlet |
| 28-35 | 83 | HQF5-2 | RD cadre presence had positive effect on hamlet |
| 76-83 | 84 | HQF5-8 | RD cadre presence not applicable |
| 84-91 | 85 | HQF5-9 | Effect of RD cadre unknown |
| 12-19 | 86 | HQF6-0 | No household's members in people's groups |
| 20-27 | 87 | HQF6-1 | A few household's members in people's groups |
| 28-35 | 88 | HQF6-2 | Some household's members in people's groups |
| 36-43 | 89 | HQF6-3 | Many household's members in people's groups |
| 44-51 | 90 | HQF6-4 | All household's members in people's groups |
| 76-83 | 91 | HQF6-8 | Membership in people's group not applicable |
| 84-91 | 92 | HQF6-9 | Membership in people's groups not known |
| 12-19 | 93 | HQL1-0 | No market in hamlet |
| 20-27 | 94 | HQL1-1 | Hamlet market in hamlet |
| 28-35 | 95 | HQL1-2 | Market for area hamlets in hamlet |
| 36-43 | 96 | HQL1-3 | Market for village area in hamlet |
| 76-83 | 97 | HQL1-8 | Market size not applicable |
| 84-91 | 98 | HQL1-9 | Market size unknown |
| 12-19 | 99 | HQN1-0 | No GVN economic programs |
| 20-27 | 100 | HQN1-1 | A few participants in GVN economic programs |
| 28-35 | 101 | HQN1-2 | Some participation in GVN economic programs |
| 36-43 | 102 | HQN1-3 | Many participants in GVN economic programs |
| 44-51 | 103 | HQN1-4 | All participate in GVN economic programs |
| 76-83 | 104 | HQN1-8 | Participation in GVN economic program not applicable |
| 84-91 | 105 | HQN1-9 | Participation in GVN economic program unknown |
| 12-19 | 106 | HQN2-0 | No self-development projects |
| 20-27 | 107 | HQN2-1 | A few self-development project participants |
| 12-19 | 108 | HQP1-0 | No GVN medical services available |
| 20-27 | 109 | HQP1-1 | GVN medical service available in distant hamlet |
| 28-35 | 110 | HQP1-2 | GVN medical services available in nearly all hamlets |
| 36-43 | 111 | HQP1-3 | GVN medical services available in this hamlet |
| 76-83 | 112 | HQP1-8 | Availability of medical service not applicable |
| 84-91 | 113 | HQP1-9 | Availability of medical services not known |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 12-19 | 114 | HQR1-0 | No hamlet children able to attend primary school |
| 20-27 | 115 | HQR1-1 | Primary school in distant hamlet |
| 28-35 | 116 | HQR1-2 | Primary school in nearly all hamlets |
| 36-43 | 117 | HQR1-3 | Primary school in this hamlet |
| 76-83 | 118 | HQR1-8 | School attendance not applicable |
| 84-91 | 119 | HQR1-9 | School attendance unknown |
| 12-19 | 120 | HQZ2-0 | Hamlet is long established |
| 20-27 | 121 | HQZ2-1 | Hamlet less than 5 years old |
| 28-35 | 122 | HQZ2-2 | Hamlet less than 1 year old |
| 36-43 | 123 | HQZ2-3 | Hamlet is refugee camp |
| 44-51 | 124 | HQZ2-4 | Hamlet coded as other |
| 76-83 | 125 | HQZ2-8 | Hamlet character not applicable |
| 84-91 | 126 | HQZ2-9 | Hamlet character unknown |
| 12-19 | 127 | HMA2-0 | District chief did not visit this hamlet during the month |
| 20-27 | 128 | HMA2-1 | District chief visited briefly this month |
| 28-35 | 129 | HMA2-2 | Frequent short visits by district chief |
| 36-43 | 130 | HMA2-3 | One extended visit of district chief |
| 44-51 | 131 | HMA2-4 | Frequent extended visits by district chief |
| 52-59 | 132 | HMA2-5 | District chief lives in this hamlet |
| 76-83 | 133 | HMA2-8 | Frequency of district chief visits not applicable |
| 84-91 | 134 | HMA2-9 | Frequency of visits unknown |
| 12-19 | 135 | HMB1-0 | Enemy does not control hamlet |
| 20-27 | 136 | HMB1-1 | Enemy does control hamlet |
| 28-35 | 137 | HMB1-2 | Enemy combat hamlet |
| 76-83 | 138 | HMB1-8 | Enemy presence inapplicable |
| 84-91 | 139 | HMB1-9 | Enemy presence unknown |
| 12-19 | 140 | HMB2-0 | No enemy action against local security force |
| 20-27 | 141 | HMB2-1 | One enemy action against local security force |
| 28-35 | 142 | HMB2-2 | Sporadic enemy action against local security force |
| 36-43 | 143 | HMB2-3 | Repeated enemy action against local security force |
| 76-83 | 144 | HMB2-8 | Enemy action not applicable |
| 84-91 | 145 | HMB2-9 | Enemy action unknown |
| 12-19 | 146 | HMB3-0 | No serious enemy activity |
| 20-27 | 147 | HMB3-1 | Minor enemy activity |
| 28-35 | 148 | HMB3-2 | Small arms attack |
| 36-43 | 149 | HMB3-3 | Heavy weapons attack |
| 44-51 | 150 | HMB3-4 | Ground assault - repelled |

| Position | Variable | Code | Name |
|---|---|---|---|
| 52-59 | 151 | HMB3-5 | Ground assault - overrun |
| 76-83 | 152 | HMB3-8 | Enemy activity not applicable |
| 84-91 | 153 | HMB3-9 | Enemy activity not known |
| 12-19 | 154 | HMB4-0 | No enemy forces present in hamlet |
| 20-27 | 155 | HMB4-1 | Enemy forces present once |
| 28-35 | 156 | HMB4-2 | Enemy forces present sporadically |
| 36-43 | 157 | HMB4-3 | Enemy forces present regularly |
| 76-83 | 158 | HMB4-8 | Enemy presence not applicable |
| 84-91 | 159 | HMB4-9 | Enemy presence not known |
| 12-19 | 160 | HMB5-0 | Selective terrorism not attempted |
| 20-27 | 161 | HMB5-1 | Selective terrorism attempted once |
| 28-35 | 162 | HMB5-2 | Selective terrorism attempted more than once |
| 76-83 | 163 | HMB5-8 | Selective terrorist attempts not applicable |
| 84-91 | 164 | HMB5-9 | Selective terrorist attempts not known |
| 12-19 | 165 | HMB6-0 | Non-selective terrorism not attempted |
| 20-27 | 166 | HMB6-1 | Non-selective terrorism attempted |
| 28-35 | 167 | HMB6-2 | Non-selective terrorism attempted more than once |
| 76-83 | 168 | HMB6-8 | Non-selective terrorism attempts not applicable |
| 84-91 | 169 | HMB6-9 | Non-selective terrorism attempts unknown |
| 12-19 | 170 | HMB7-0 | No incidents against GVN non-military activities |
| 20-27 | 171 | HMB7-1 | Minor incidents against GVN non-military activities |
| 28-35 | 172 | HMB7-2 | Serious incidents against GVN non-military activity |
| 36-43 | 173 | HMB7-3 | Incidents force abandonment of GVN non-military activity |
| 76-83 | 174 | HMB7-8 | Incidents against GVN non-military activity not applicable |
| 84-91 | 175 | HMB7-9 | Incidents against GVN non-military activity unknown |
| 12-19 | 176 | HMB8-0 | No enemy propaganda meetings held |
| 20-27 | 177 | HMB8-1 | One enemy propaganda meeting held |
| 28-35 | 178 | HMB8-2 | More than one enemy propaganda meeting held |
| 76-83 | 179 | HMB8-8 | Enemy propaganda meeting not applicable |
| 84-91 | 180 | HMB8-9 | Enemy propaganda meeting not known |
| 12-19 | 181 | HMC3-0 | No local security operation resulted in contact |
| 20-27 | 182 | HMC3-1 | One local security operation resulted in contact |
| 28-35 | 183 | HMC3-2 | More than one local security operation resulted in contact |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 76-83 | 184 | HMC3-8 | Local security force operational contacts not applicable |
| 84-91 | 185 | HMC3-9 | Local security force operational contacts unknown |
| 12-19 | 186 | HMD1-0 | No civilian casualties caused by enemy activities |
| 20-27 | 187 | HMD1-1 | Civilian wounded by enemy activities |
| 28-35 | 188 | HMD1-2 | Some civilians killed by enemy activities |
| 36-43 | 189 | HMD1-3 | More than 5 civilians killed by enemy activity |
| 76-83 | 190 | HMD1-8 | Civilian casulaties caused by enemy not applicable |
| 84-91 | 191 | HMD1-9 | Civilian casulaties caused by enemy unknown |
| 12-19 | 192 | HMD2-0 | No damage caused by enemy activity |
| 20-27 | 193 | HMD2-1 | Minor damage caused by enemy activity |
| 28-35 | 194 | HMD2-2 | Serious local damage caused by enemy activity |
| 36-43 | 195 | HMD2-3 | Widespread damage caused by enemy activity |
| 76-83 | 196 | HMD2-8 | Enemy caused damage not applicable |
| 84-91 | 197 | HMD2-9 | Enemy caused damage unknown |
| 12-19 | 198 | HMD3-0 | No friendly caused civilian casualties |
| 20-27 | 199 | HMD3-1 | Friendly caused wounded civilians |
| 28-35 | 200 | HMD3-2 | Some (1-5) civilians killed by friendly activity |
| 36-43 | 201 | HMD3-3 | More than 5 civilians killed by friendly activity |
| 76-83 | 202 | HMD3-8 | Friendly caused civilian casualties not applicable |
| 84-91 | 203 | HMD3-9 | Friendly caused civilian casualties unknown |
| 12-19 | 204 | HMD5-0 | Effect of military activity has been no contacts |
| 20-27 | 205 | HMD5-1 | Significant victory for friendly forces |
| 28-35 | 206 | HMD5-2 | Minor victory for friendly forces |
| 36-43 | 207 | HMD5-3 | Neither defeat nor victory resulted from activity |
| 44-51 | 208 | HMD5-4 | Minor defeats for friendly |
| 52-59 | 209 | HMD5-5 | Significant defeat for friendly |
| 60-69 | 210 | HMD5-6 | No friendly activity |
| 12-19 | 211 | VQB1-0 | No known VCI in village |
| 20-27 | 212 | VQB1-1 | VCI sporadic and covert |
| 28-35 | 213 | VQB1-2 | VCI regular covert, sporadic overt |
| 36-43 | 214 | VQB1-3 | VCI regular overt, not established |
| 44-51 | 215 | VQB1-4 | VCI unchallenged authority |
| 76-83 | 216 | VQB1-8 | VCI structure not applicable |
| 84-91 | 217 | VQB1-9 | VCI structure unknown |
| 12-19 | 218 | VQB2-0 | No guerrilla units regularly present in the village |

| Position | Variable | Code | Name |
|---|---|---|---|
| 20-27 | 219 | VQB2-1 | Less than a squad of guerrillas regularly present |
| 28-35 | 220 | VQB2-2 | About a squad of guerrillas regularly present in village |
| 36-43 | 221 | VQB2-3 | About a platoon of guerrillas regularly present in the village |
| 44-51 | 222 | VQB2-4 | More than a platoon of guerrillas regularly present in the village |
| 76-83 | 223 | VQB2-8 | Largest guerrilla force in village inappropriate |
| 84-91 | 224 | VQB2-9 | Largest guerrilla force in village unknown |
| 12-19 | 225 | VQB3-0 | No enemy main force or local force units present in village |
| 20-27 | 226 | VQB3-1 | Less than a platoon enemy main force present in village |
| 28-35 | 227 | VQB3-2 | About a platoon of enemy main force present in village |
| 36-43 | 228 | VQB3-3 | About a company of enemy main force present in village |
| 44-51 | 229 | VQB3-4 | A battalion or more enemy main force present in village |
| 76-83 | 230 | VQB3-8 | Size of enemy main force unit in village not applicable |
| 84-91 | 231 | VQB3-9 | Size of enemy main force unit in village is unknown |
| 12-19 | 232 | VQB5-0 | Enemy does not tax goods moving to or from village |
| 20-27 | 233 | VQB5-1 | Enemy sporadically taxes goods moving to or from village |
| 28-35 | 234 | VQB5-2 | Enemy regularly taxes goods moving to or from village |
| 76-83 | 235 | VQB5-8 | Enemy taxation not applicable |
| 84-91 | 236 | VQB5-9 | Enemy taxation unknown |
| 12-19 | 237 | VQC5-0 | No village security plan |
| 20-27 | 238 | VQC5-1 | Village security plan not followed |
| 28-35 | 239 | VQC5-2 | Village plan followed but works poorly |
| 36-43 | 240 | VQC5-3 | Village plan followed and works well |
| 76-83 | 241 | VQC5-8 | Village security plan adequacy not applicable |
| 84-91 | 242 | VQC5-9 | Village security plan adequacy unknown |
| 12-19 | 243 | VQC6-0 | No popular forces in village |
| 20-27 | 244 | VQC6-1 | Popular forces not controlled by village chief |

| Position | Variable | Code | Name |
|---|---|---|---|
| 28-35 | 245 | VQC6-2 | Popular forces partially controlled by village chief |
| 36-43 | 246 | VQC6-3 | Popular forces completely controlled by village chief |
| 76-83 | 247 | VQC6-8 | Village chief control of popular forces not applicable |
| 84-91 | 248 | VQC6-9 | Village chief control of popular forces unknown |
| 12-19 | 249 | VQD1-0 | No national police regularly present in village |
| 20-27 | 250 | VQD1-1 | National police regularly present in village |
| 28-35 | 251 | VQD1-2 | National police stationed in village |
| 76-83 | 252 | VQD1-8 | National police presence not applicable |
| 84-91 | 253 | VQD1-9 | National police presence unknown |
| 12-19 | 254 | VQD4-0 | Police measures are not complete |
| 20-27 | 255 | VQD4-1 | Police measures are complete for small part of village |
| 28-35 | 256 | VQD4-2 | Police measures are complete for most of the village |
| 36-43 | 257 | VQD4-3 | Police measures are complete for entire village |
| 76-83 | 258 | VQD4-8 | Extent of police measures not applicable |
| 84-91 | 259 | VQD4-9 | Extent of police measures unknown |
| 12-19 | 260 | VQD5-0 | Identities of VCI not known |
| 20-27 | 261 | VQD5-1 | Identities of a few VCI known |
| 28-35 | 262 | VQD5-2 | Identities of some VCI known |
| 36-43 | 263 | VQD5-3 | Identities of many VCI known |
| 44-51 | 264 | VQD5-4 | Identities of all VCI known |
| 76-83 | 265 | VQD5-8 | Identities of VCI not applicable |
| 84-91 | 266 | VQD5-9 | Not known if VCI identities known |
| 12-19 | 267 | VQD6-0 | Identities of village guerrilla members not known |
| 20-27 | 268 | VQD6-1 | Identities of a few guerrilla members known |
| 28-35 | 269 | VQD6-2 | Identities of some (10-40%) guerrillas known |
| 36-43 | 270 | VQD6-3 | Identities of many (41-90%) guerrillas known |
| 44-51 | 271 | VQD6-4 | Identities of all guerrillas known |
| 76-83 | 272 | VQD6-8 | Identities of guerrillas not applicable |
| 84-91 | 273 | VQD6-9 | Not known if identities of guerrillas are known |
| 12-19 | 274 | VQE1-0 | No active GVN village administration committee |
| 20-27 | 275 | VQE1-1 | GVN village administration committee consists only of village chief |
| 28-35 | 276 | VQE1-2 | GVN village administration committee has two or more positions vacant |
| 36-43 | 277 | VQE1-3 | GVN village administration committee has one vacancy |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 44-51 | 278 | VQE1-4 | GVN village administration committee completely staffed |
| 12-19 | 279 | VQE2-0 | No active village council exists |
| 20-27 | 280 | VQE2-1 | All village council members appointed |
| 28-35 | 281 | VQE2-2 | Few (less than 30%) village council members elected |
| 36-43 | 282 | VQE2-3 | Some (30%-70%) village council members elected |
| 44-51 | 283 | VQE2-4 | Many (more than 70%) village council members elected |
| 52-59 | 284 | VQE2-5 | All village council members elected |
| 12-19 | 285 | VQE3-0 | Village chief not elected by village council |
| 20-27 | 286 | VQE3-1 | Village chief is elected by village council |
| 12-19 | 287 | VQE4-0 | Village chief present only when accompanying operation |
| 20-27 | 288 | VQE4-1 | Village chief present irregularly |
| 28-35 | 289 | VQE4-2 | Village chief present regularly, but only by day |
| 36-43 | 290 | VQE4-3 | Village chief present regularly day and night |
| 12-19 | 291 | VQE5-0 | No functioning GVN village office located in this village |
| 20-27 | 292 | VQE5-1 | Yes, functioning GVN village office located in this village |
| 12-19 | 293 | VQE7-0 | GVN does not collect taxes in this village |
| 20-27 | 294 | VQE7-1 | GVN does not collect taxes - amnesty |
| 28-35 | 295 | VQE7-2 | GVN collects taxes but unsystematically |
| 36-43 | 296 | VQE7-3 | GVN collects taxes systematically |
| 12-19 | 297 | VQF1-0 | Village council never meets openly |
| 20-27 | 298 | VQF1-1 | Village council meets less than once a month, openly |
| 28-35 | 299 | VQF1-2 | Village council meets on an average of once a month, openly |
| 36-43 | 300 | VQF1-3 | Village council meets twice a month or more, openly |
| 12-19 | 301 | VQF2-0 | No grievance meetings and no action by chief |
| 20-27 | 302 | VQF2-1 | Grievance meetings but no corrective action by chief |
| 28-35 | 303 | VQF2-2 | Meetings held and chief occasionally takes action |
| 36-43 | 304 | VQF2-3 | Meetings held and chief regularly takes action |
| 12-19 | 305 | VQF3-0 | No non-Communist political party active |
| 20-27 | 306 | VQF3-1 | One non-Communist political party active |
| 28-35 | 307 | VQF3-2 | Two non-Communist political parties active |
| 36-43 | 308 | VQF3-3 | More than two non-Communist political parties active |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 12-19 | 309 | VQF4-0 | No youth-organization activities |
| 20-27 | 310 | VQF4-1 | Some youth organization activities |
| 12-19 | 311 | VQF5-0 | No RD cadre or cooperation with village officials |
| 20-27 | 312 | VQF5-1 | RD cadre but no cooperation with village officials |
| 28-35 | 313 | VQF5-2 | RD cadre and occasional cooperation with village officials |
| 36-43 | 314 | VQF5-3 | RD cadre and regular cooperation with village officials |
| 12-19 | 315 | VQF6-0 | No RD cadre for village chief's operational control |
| 20-27 | 316 | VQF6-1 | RD cadre not operationally controlled by village chief |
| 28-35 | 317 | VQF6-2 | RD cadre partially controlled by village chief |
| 36-43 | 318 | VQF6-3 | RD cadre completely controlled by village chief |
| 12-19 | 319 | VQF7-0 | No RD cadre assigned this village |
| 20-27 | 320 | VQF7-1 | RD cadre but does not sleep in village at night |
| 28-35 | 321 | VQF7-2 | RD cadre occasionally sleeps in village |
| 36-43 | 322 | VQF7-3 | RD cadre regularly sleeps in village |
| 12-19 | 323 | VQG1-0 | No trained info/Chieu Hoi cadre assigned village |
| 20-27 | 324 | VQG1-1 | Info/Chieu Hoi cadre assigned village but not yet trained |
| 28-35 | 325 | VQG1-2 | Trained info/Chieu Hoi cadre assigned but not full-time resident |
| 36-43 | 326 | VQG1-3 | Trained info/Chieu Hoi cadre assigned and full-time resident |
| 12-19 | 327 | VQG2-0 | Villages never exposed GVN movies, dramas, etc. |
| 20-27 | 328 | VQG2-1 | Villagers infrequently exposed GVN movies, dramas |
| 28-35 | 329 | VQG2-2 | Villagers periodically (1-3 times a month) exposed GVN movies, etc. |
| 36-43 | 330 | VQG2-3 | Villagers regularly (once a week, plus) exposed GVN movies, etc. |
| 12-19 | 331 | VQG3-0 | GVN info cadre never visits village |
| 20-27 | 332 | VQG3-1 | GVN info cadre visits less than once a month |
| 28-35 | 333 | VQG3-2 | GVN info cadre visits 1-3 times a month |
| 36-43 | 334 | VQG3-3 | GVN info cadre visits 1-3 times a week |
| 44-51 | 335 | VQG3-4 | GVN info cadre visits more than 3 times a week |
| 12-19 | 336 | VQL1-0 | Nothing besides rice and nuoc mam sold at local market |

| Position | Variable | Code | Name |
|---|---|---|---|
| 20-27 | 337 | VQL1-1 | Limited quantities of pork, vegetables, etc. sold at local market |
| 28-35 | 338 | VQL1-2 | Ample quantities of pork, vegetables, etc. sold at local market |
| 12-19 | 339 | VQL2-0 | No manufactured goods sold at local market |
| 20-27 | 340 | VQL2-1 | Limited quantities of manufactured goods sold locally |
| 28-35 | 341 | VQL2-2 | Ample quantities of manufactured goods sold locally |
| 12-19 | 342 | VQL3-0 | No local surplus of goods produced for sale outside village |
| 20-27 | 343 | VQL3-1 | Small local surplus of goods produced for sale outside village |
| 28-35 | 344 | VQL3-2 | Large local surplus of goods produced for sale outside village |
| 12-19 | 345 | VQN1-0 | No new self-developed projects selected by people this quarter |
| 20-27 | 346 | VQN1-1 | Some new self-developed projects selected by people, but not at open public meetings |
| 28-35 | 347 | VQN1-2 | Some new self-development projects selected by people at open public meetings |
| 36-43 | 348 | VQN1-3 | All new self-development projects selected by people at open public meetings |
| 12-19 | 349 | VQN2-0 | No self-developed projects; thus no possible retardation |
| 20-27 | 350 | VQN2-1 | No self-developed projects retarded due to lack of technical aid from province/district |
| 28-35 | 351 | VQN2-2 | Minor retardation self-developed projects due to lack of technical aid from province/district |
| 36-43 | 352 | VQN2-3 | Serious retardation self-developed project due to lack of technical aid (province/district) |
| 44-51 | 353 | VQN2-4 | Abandonment self-developed projects due to lack of technical aid (province/district) |
| 12-19 | 354 | VQN3-0 | No self-developed projects; thus no retardation due to lack of resources |
| 20-27 | 355 | VQN3-1 | No retardation in self-developed projects due to lack of resources |
| 28-35 | 356 | VQN3-2 | Minor delay self-developed projects due to lack of resources |
| 36-43 | 357 | VQN3-3 | Serious delay self-developed projects due to lack of resources |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 44-51 | 358 | VQN3-4 | Self-developed projects abandoned due to lack of resources |
| 12-19 | 359 | VQN4-0 | No village public works projects under construction this quarter |
| 20-27 | 360 | VQN4-1 | Village public works projects under construction this quarter |
| 12-19 | 361 | VQN5-0 | No GVN technicians visit in support of local programs |
| 20-27 | 362 | VQN5-1 | GVN technicians visit infrequently to support local programs |
| 28-35 | 363 | VQN5-2 | GVN technicians visit periodically to support local programs |
| 36-43 | 364 | VQN5-3 | GVN technicians visit regularly to support local programs |
| 44-51 | 365 | VQN5-4 | GVN technicians reside in village while supporting local programs |
| 12-19 | 366 | VQP1-0 | No GVN dispensary is accessible to villagers |
| 20-27 | 367 | VQP1-1 | GVN dispensary is farther than adjacent village |
| 28-35 | 368 | VQP1-2 | GVN dispensary accessible in adjacent village |
| 36-43 | 369 | VQP1-3 | GVN dispensary in this village |
| 12-19 | 370 | VQP2-0 | GVN maternity clinic not accessible to villagers |
| 20-27 | 371 | VQP2-1 | GVN maternity clinic farther than adjacent village |
| 28-35 | 372 | VQP2-2 | GVN maternity clinic accessible in adjacent village |
| 36-43 | 373 | VQP2-3 | GVN maternity clinic in this village |
| 12-19 | 374 | VQP3-0 | No hospital/M. D. accessible to villagers |
| 20-27 | 375 | VQP3-1 | Hospital/M. D. accessible but farther than adjacent village |
| 28-35 | 376 | VQP3-2 | Hospital/M. D. accessible in adjacent village |
| 36-43 | 377 | VQP3-3 | Hospital M. D. in this village |
| 12-19 | 378 | VQP4-0 | No Western medicines purchasable locally |
| 20-27 | 379 | VQP4-1 | Limited supply Western medicines purchasable locally |
| 28-35 | 380 | VQP4-2 | Adequate supply Western medicines purchasable locally |
| 12-19 | 381 | VQR1-0 | No GVN-accredited secondary school accessible |
| 20-27 | 382 | VQR1-1 | GVN accredited school accessible but farther than adjacent village |
| 28-35 | 383 | VQR1-2 | GVN accredited school accessible in an adjacent village |
| 36-43 | 384 | VQR1-3 | GVN accredited school in this village |

| Position | Variable | Code | Name |
|----------|----------|------|------|
| 12-19 | 385 | VQR2-0 | No village children attend secondary school |
| 20-27 | 386 | VQR2-1 | A few village children attend secondary school |
| 28-35 | 387 | VQR2-2 | Some (5-20%) village children attend secondary school |
| 36-43 | 388 | VQR2-3 | Many (more than 20%) village children attend secondary school |
| 12-19 | 389 | VQR3-0 | No village children completed 5 years of school |
| 20-27 | 390 | VQR3-1 | A few (less than 10%) completed 5 years of school |
| 28-35 | 391 | VQR3-2 | Some village children completed 5 years of school |
| 36-43 | 392 | VQR3-3 | Many village children completed 5 years of school |
| 44-51 | 393 | VQR3-4 | All village children completed 5 years of school |
| 12-19 | 394 | VMB1-0 | No enemy local or main force unit in/near village this month |
| 20-27 | 395 | VMB1-1 | Less than platoon of enemy local or main force unit in/near village this month |
| 28-35 | 396 | VMB1-2 | About a platoon of enemy local/main force unit in/near village this month |
| 36-43 | 397 | VMB1-3 | About a company of enemy local/main force unit in/near village this month |
| 44-51 | 398 | VMB1-4 | A batallion or more of enemy local/main force unit in/near village this month |

## APPENDIX G

## CODEBOOK OF INDICES FOR COERCIVE
## ACTS AND POLITICAL INFLUENCE

This appendix includes the HES questions, response weightings, and index com-
position used to construct the province data set employed in analysis of Coercive
Acts and Political Influence.

### Coercion Index - HES 70

|  | QHES 70 VAR # | Weight |  | Index VAR # |
|---|---|---|---|---|
| Selective | 165 | 5 | | |
| Terrorism | 166 | 7 | = | 1 |
| (HMB-5) | 167 | 9 | | |
| | | | | |
| Non-Selective | 170 | 5 | | |
| Terrorism | 171 | 7 | = | 2 |
| (HMB-6) | 172 | 9 | | |
| | | | | |
| Incidents Against | 175 | 5 | | |
| Non-Military Targets | 176 | 6 | | |
| (HMS-7) | 177 | 8 | = | 3 |
| | 178 | 9 | | |

Coercion Index Score = $\overline{X}$ of VARS 1-3    =    4

### Population Harm Index - HES 70

|  | QHES 70 VAR # | Weight |  | Index VAR # |
|---|---|---|---|---|
| Civilian Casualties | 191 | 5 | | |
| (HMD-1) | 192 | 7 | | |
| | 193 | 8 | = | 5 |
| | 194 | 9 | | |
| | | | | |
| Enemy Caused | 197 | 5 | | |
| Damage | 198 | 6 | | |
| (HMD-2) | 199 | 7 | = | 6 |
| | 200 | 9 | | |

Population Harm Index Score (HES) = $\overline{X}$ of 5, 6    =    7

## Enemy Strength Index - HES 70

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Enemy Strength Near-By | 461 | 5 | | |
| (VMB-1) | 462 | 6 | | |
| | 463 | 7 | = | 8 |
| | 464 | 8 | | |
| | 465 | 9 | | |
| | | | | |
| Enemy Presence | 159 | 5 | | |
| (HMB-4) | 160 | 6 | | |
| | 161 | 7 | = | 9 |
| | 162 | 9 | | |

Enemy Strength Index Score (HES) = $\overline{X}$ of 8, 9  =  10

## Enemy Activity Index - HES 70

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Intensity of Enemy | 151 | 5 | | |
| Activity | 152 | 6 | | |
| (HMB-3) | 153 | 6 | = | 11 |
| | 154 | 7 | | |
| | 155 | 8 | | |
| | 156 | 9 | | |
| | | | | |
| Action Against Local | 145 | 5 | | |
| Forces | 146 | 6 | | |
| (HMB-2) | 147 | 7 | = | 12 |
| | 148 | 9 | | |
| | | | | |
| Enemy Propaganda | 181 | 5 | | |
| Meetings | 182 | 7 | = | 13 |
| (HMB-8) | 183 | 9 | | |

Enemy Activity Index Score (HES) = $\overline{\overline{X}}$ of 11, 12, 13  =  14

## Social Benefits Index

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| GVN Dispensary | 419 | 5 | | |
| (VQP-1) | 420 | 4 | | |
| | 421 | 3 | = | 15 |
| | 422 | 1 | | |
| GVN Maternity | 425 | 5 | | |
| Clinic | 426 | 4 | | |
| (VQP-2) | 427 | 3 | = | 16 |
| | 428 | 1 | | |
| Hospital/M. D. | 431 | 5 | | |
| (VQP-3) | 432 | 4 | | |
| | 433 | 3 | = | 17 |
| | 434 | 1 | | |
| Western Medicine | 437 | 5 | | |
| (VQP-4 | 438 | 3 | = | 18 |
| | 439 | 1 | | |
| GVN Medical Services | 113 | 5 | | |
| (HQP-1) | 114 | 4 | | |
| | 115 | 3 | = | 19 |
| | 116 | 1 | | |
| Primary School Near-By | 119 | 5 | | |
| (HQR-1) | 120 | 4 | | |
| | 121 | 3 | = | 20 |
| | 122 | 1 | | |
| Secondary School | 442 | 5 | | |
| (VQR-1) | 443 | 4 | = | 21 |
| | 444 | 3 | | |
| | 445 | 1 | | |
| % Attending Secondary | 448 | 5 | | |
| School | 449 | 4 | | |
| (VQR-2) | 450 | 3 | = | 22 |
| | 451 | 1 | | |

## Social Benefits Index (Cont'd.)

|  | QHES 70 VAR # | Weight |  | Index VAR # |
|---|---|---|---|---|
| % Complete 5 Years | 454 | 5 |  |  |
| of School | 455 | 4 |  |  |
| (VQR-3) | 456 | 3 | = | 23 |
|  | 457 | 2 |  |  |
|  | 458 | 1 |  |  |

$$\text{Social Benefits Index Score (HES)} = \overline{X} \text{ of } 15 - 23 = 24$$

## Autonomous Economic Activity Index - HES

|  | QHES 70 VAR # | Weight |  | Index VAR # |
|---|---|---|---|---|
| Commodities | 373 | 5 |  |  |
| Available | 374 | 3 | = | 25 |
| (VQL-1) | 354 | 1 |  |  |
| Manufactured Goods | 378 | 5 |  |  |
| Available | 379 | 3 | = | 26 |
| (VQL-2) | 380 | 1 |  |  |
| Surplus Goods | 383 | 5 |  |  |
| Produced | 384 | 3 | = | 27 |
| (VQL-3) | 385 | 1 |  |  |
| Hamlet Market | 93 | 5 |  |  |
| Development | 94 | 3 |  |  |
| (HQL-1) | 95 | 2 | = | 28 |
|  | 96 | 1 |  |  |

$$\text{Autonomous Economic Activity Score Index} = \overline{X} \text{ of } 25-28 = 29$$

### Economic Stimulation Index - HES

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Self-Development | 394 | 5 | | |
| Retardation (Tech) | 395 | 1 | | |
| (VQN-2) | 396 | 2 | = | 30 |
| | 397 | 4 | | |
| | 398 | 5 | | |
| | | | | |
| Self-Development | 401 | 5 | | |
| Retardation (Resources) | 402 | 1 | | |
| (VQN-3) | 403 | 2 | = | 31 |
| | 404 | 3 | | |
| | 405 | 5 | | |
| | | | | |
| Public Works | 408 | 5 | | |
| (VQN-4) | 409 | 2 | = | 32 |
| | | | | |
| % Participate In GVN | 99 | 5 | | |
| Economic Activities | 100 | 4 | | |
| (HQN-1) | 101 | 3 | = | 33 |
| | 102 | 2 | | |
| | 103 | 1 | | |

Economic Stimulation Index Score (HES) = $\overline{X}$ of 30-33 =  34

### GVN Propaganda Index - HES

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Frequency of GVN | 412 | 5 | | |
| Technical Visits | 413 | 4 | | |
| (VQN-5) | 414 | 3 | = | 35 |
| | 415 | 2 | | |
| | 416 | 1 | | |
| | | | | |
| Use of Chieu Hoi | 354 | 5 | | |
| (VQG-1) | 355 | 4 | | |
| | 356 | 2 | = | 36 |
| | 357 | 1 | | |

## GVN Propaganda Index - HES (Cont'd. )

|  | QHES 70 VAR # | Weight |  | Index VAR # |
|---|---|---|---|---|
| Frequency of GVN | 360 | 5 |  |  |
| Movies | 361 | 4 | = | 37 |
| (VQG-2) | 362 | 3 |  |  |
|  | 363 | 2 |  |  |
|  |  |  |  |  |
| GVN Information | 366 | 5 |  |  |
| Cadre Visits | 367 | 4 | = | 38 |
| (VQG-3) | 368 | 3 |  |  |
|  | 369 | 2 |  |  |
|  | 370 | 1 |  |  |

GVN Propaganda Index Score = $\overline{X}$ of 35 - 38    =    39

## GVN Administrative Presence Index - HES

|  | QHES 70 VAR # | Weight |  | Index VAR # |
|---|---|---|---|---|
| GVN Village | 304 | 5 |  |  |
| Office | 305 | 2 | = | 40 |
| (VQE-5) |  |  |  |  |
|  |  |  |  |  |
| Hamlet Chief | 52 | 5 |  |  |
| Presence | 53 | 4 |  |  |
| (HQE-2) | 54 | 2 | = | 41 |
|  | 55 | 1 |  |  |
|  |  |  |  |  |
| GVN Law Enforcement | 42 | 5 |  |  |
| (HQD-2) | 43 | 3 | = | 42 |
|  | 44 | 1 |  |  |
|  |  |  |  |  |
| GVN Village Administrative | 279 | 5 |  |  |
| Committee | 280 | 4 |  |  |
| (VQE-1) | 281 | 3 | = | 43 |
|  | 282 | 2 |  |  |
|  | 283 | 1 |  |  |

### GVN Administrative Presence Index - HES (Cont'd.)

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Village Chief Presence (VQE-4) | 298 | 5 | | |
| | 299 | 4 | | |
| | 300 | 2 | = | 44 |
| | 301 | 1 | | |
| Hamlet Accessibility to GVN Administration (HQC-5) | 20 | 1 | | |
| | 21 | 2 | | |
| | 22 | 3 | = | 45 |
| | 23 | 4 | | |
| Settlement of Civil Disputes (HQE-3) | 58 | 8 | | |
| | 59 | 4 | = | 46 |
| | 60 | 2 | | |
| RD Cadre Cooperation with GVN Village Officials (VQF-5) | 336 | 5 | | |
| | 337 | 5 | | |
| | 338 | 2 | = | 47 |
| | 339 | 2 | | |

GVN Administrative Presence Index Score

$$(\text{HES}) = \overline{X} \text{ of } 40 - 47 \quad = \quad 48$$

### VC Political Influence Index - HES

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Enemy Control of Hamlet (HMB-1) | 140 | 5 | | |
| | 141 | 7 | = | 49 |
| | 142 | 9 | | |
| Hamlet VCI Activity (HQB-1) | 1 | 5 | | |
| | 2 | 6 | | |
| | 3 | 7 | = | 50 |
| | 4 | 8 | | |
| | 5 | 9 | | |

## VC Political Influence Index - HES (Cont'd.)

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Village VCI Activity | 216 | 5 | | |
| (VQB-1) | 217 | 6 | | |
| | 218 | 7 | = | 51 |
| | 219 | 8 | | |
| | 220 | 9 | | |
| Enemy Tax Collection | 8 | 5 | | |
| (HQB-2) | 9 | 7 | = | 52 |
| | 10 | 9 | | |
| Household Members In | 67 | 5 | | |
| Enemy Service | 68 | 6 | | |
| (HQF-1) | 69 | 7 | = | 53 |
| | 70 | 8 | | |
| | 71 | 9 | | |
| % Participate In Enemy | 13 | 5 | | |
| Group Activities | 14 | 6 | | |
| (HQB-3) | 15 | 7 | = | 54 |
| | 16 | 8 | | |
| | 17 | 9 | | |

VC Political Influence Index Score (HES) = $\overline{X}$ of 49-54 = 55

## GVN Political Influence Index

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Election of Chief | 47 | 5 | | |
| (HQE-1) | 48 | 3 | = | 56 |
| | 49 | 2 | | |
| % In PSDF | 27 | 5 | | |
| (HQC-6) | 28 | 4 | | |
| | 29 | 3 | = | 57 |
| | 30 | 2 | | |
| | 31 | 1 | | |

## GVN Political Influence Index (Cont'd.)

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| **PSDF Activities** (HQC-7) | 34 | 5 | | |
| | 35 | 5 | | |
| | 36 | 4 | = | 58 |
| | 37 | 3 | | |
| | 38 | 2 | | |
| | 39 | 1 | | |
| **Election of Village Council Members** (VQE-2) | 286 | 5 | | |
| | 287 | 4 | | |
| | 288 | 4 | = | 59 |
| | 289 | 3 | | |
| | 290 | 2 | | |
| | 291 | 1 | | |
| **Self-Development Participation** (HQN-2) | 106 | 5 | | |
| | 107 | 4 | | |
| | 108 | 3 | = | 60 |
| | 109 | 2 | | |
| | 110 | 1 | | |
| **Election of Village Chief** (VQE-3) | 294 | 5 | = | 61 |
| | 295 | 2 | | |
| **GVN Tax Collection** (VQE-7) | 308 | 5 | | |
| | 309 | 0 | | |
| | 310 | 3 | = | 62 |
| | 311 | 1 | | |
| **Frequency of Village Council Meetings** (VQF-1) | 314 | 5 | | |
| | 315 | 4 | | |
| | 316 | 2 | = | 63 |
| | 317 | 1 | | |
| **Village Council Activity** (VQF-2) | 320 | 5 | | |
| | 321 | 4 | | |
| | 322 | 3 | = | 64 |
| | 323 | 1 | | |

## GVN Political Influence Index (Cont'd.)

| | QHES 70 VAR # | Weight | | Index VAR # |
|---|---|---|---|---|
| Non-Communist Political | 326 | 5 | | |
| Parties | 327 | 4 | = | 65 |
| (VQF-3) | 328 | 3 | | |
| | 329 | 1 | | |
| | | | | |
| Youth Activities | 332 | 5 | = | 66 |
| (VQF-4) | 333 | 2 | | |
| | | | | |
| Self-Development Activity | 398 | 5 | | |
| (VQN-1) | 389 | 3 | = | 67 |
| | 390 | 2 | | |
| | 391 | 1 | | |
| | | | | |
| % Households With Member | 74 | 5 | | |
| In GVN Service | 75 | 4 | | |
| (HQF-2) | 76 | 3 | = | 68 |
| | 77 | 2 | | |
| | 78 | 1 | | |
| | | | | |
| % Households With Member | 86 | 5 | | |
| In Peoples Groups | 87 | 4 | | |
| (HQF-6) | 88 | 3 | = | 69 |
| | 89 | 2 | | |
| | 90 | 1 | | |
| | | | | |
| RDC Sleeping Location | 348 | 5 | | |
| (VQF-7) | 349 | 5 | | |
| | 350 | 3 | = | 70 |
| | 351 | 2 | | |
| | | | | |
| Hamlet Represented on | 63 | 5 | = | 71 |
| Village Council | 64 | 2 | | |
| (HQE-5) | | | | |

GVN Political Influence Index Score = $\overline{X}$ of 56 - 71 = 72

APPENDIX H

DETAILED DESCRIPTION OF QUESTION WEIGHTINGS

This appendix is a detailed description of the questions, response weight-
ings, and index composition used to construct both the province and hamlet
level data sets. The differences between province and hamlet level index com-
position result from the fact that much of the index construction and analysis
of province level data was carried out before the specific concern with the
village program effectiveness question was raised. Some other modification of
indices took place during the course of the analysis as missing data problems
were disclosed.

Dependent Variables:

- GVN Control

    VSSG models are developed by grouping the hamlets into the following
    seven categories:

|  GVN Control  |  VC Control  |

### Group A - GVN Presence (All Required)

1. Local security forces conduct at
least "marginal" security operations in
daytime (e.g., patrols, ambushes,
listening posts, checkpoints, etc.), or
operations not needed (no enemy
threat). $HQC2 = 1, 2, 3$.

2. As above for night operations.
$HQC3 = 1, 2, 3$.

3. GVN hamlet chief regularly pre-
sent day and night in hamlet. $HQE2 = 3$.

4. GVN administrative personnel can
move about with relative freedom dur-
ing daylight hours in areas containing
91-100% of hamlet households.
$HQC5 = 0, 1$.

5. Some or all of Village Council
members are elected. $VQE2 = 2, 3, 4, 5$.

### Group V - VC Presence (One or More Required; GVN Presence Prohibited)

1. VC physically control the hamlet.
$HMB1 = 1, 2$.

2. Hamlet, VCI are primary auth-
ority in hamlet, at least at night.
$HQB1 = 3, 4$.

3. Regular covert, sporadic overt
activity by hamlet VCI ($HQB1 = 2$), and
either of the following conditions hold:

- Friendly local security activities
  are not conducted at all at night.
  $HQC3 = 0$.

- Friendly local security forces con-
  duct only marginal security opera-
  tions at night, and GVN daytime
  access is denied to 10% or more of
  hamlet households. $HQC3 = 1$
  and $HQC5 = 2, 3, 4$.

Group B - Quarterly VC Veto Conditions (One or More Can Veto GVN Control

1. Regular covert, sporadic overt activity by hamlet VCI; or hamlet VCI are primary authority in hamlet, at least at night. HQB1 = 2, 3, 4.

2. Enemy agents, recruiters, tax collectors, etc., have access at night to 41-100% of hamlet households. HQC4 = 3, 4.

Group C - Hamlet Monthly VC Veto Conditions (One or More Can Veto GVN Control)

1. VC physically control the hamlet. HMB1 = 1, 2.

2. Armed enemy forces present more than once in hamlet this month. HMB4 = 2, 3.

Group D - Village Monthly VC Veto Condition

1. Company or more of enemy main/local forces present in or near inhabited areas of village this month. VMB1 = 3, 4.

Group Z - GVN Veto Conditions (One or More Can Veto VC Control)

1. Local security forces conduct "adequate" security operations in daytime. HQC2 = 2, 3.

2. As above for night operations. HQC3 = 2, 3.

3. GVN hamlet chief regularly present day and night in hamlet. HQE2 = 3.

4. GVN administrative personnel can move about with relative freedom during daylight hours in areas containing 91-100% of hamlet households. HQC5 = 0, 1.

Group N - Could Not Be Rated

One or more of the HES questions used in Groups A, B, C, D, V, or Z were rated "not applicable" or "unknown/unable to judge" for 3 or more months.

Note that if a question is unanswered for only 1 or 2 months, the most recent response (2 or 3 months old) is used.

Two index scores for the hamlet level analysis were constructed as follows:

- VSSG GVN presence and control and VC control scores —

| Category | Category Name | Group Membership(s) | Weight |
|----------|---------------|---------------------|--------|
| P | GVN Presence | A | 3 |
| T | GVN Control | A; but not B, C, D, or N | 1 |
| U | VC Control | V, but not Z | 9 |

H-2

● Index constructed from all 10 VSSG scores —

| Category | Category Name | Group Membership | Weight |
|---|---|---|---|
| P | GVN Presence | A | 3 |
| Q | Influence by both sides | B, C, D, or Z; and not A, N, or V | 5 |
| R | VC Presence | V, and not Z | 8 |
| S | Could not be rated | N, and not A or Z | 5 |
| T | GVN Control | A; and not B, C, D, or N | 1 |
| U | VC Control | V, and not Z | 9 |
| V | GVN Presence (less Quarterly VC Veto) | A, and not B | 2 |
| W | Monthly VC Hamlet Veto of GVN Control | A and C, and not B | 3 |
| X | Monthly VC Village Veto of GVN Control | A and D, and not B | 3 |
| Y | GVN Control Vetoed by Unrated VC Questions | A and N, and not B, C, or D | 3 |

SECURITY

Security Index - a hamlet level index constructed from the following 12 questions:

HMB2    Did the enemy initiate action against local security forces in or near the hamlet during the month?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, once | 6 |
| Yes, sporadically | 7 |
| Yes, repeatedly | 9 |

HMB5     Were any attempts at selective terrorism (kidnapping or assassination) directed at particular GVN officials, prominent residents, or local leaders of the hamlet during the month?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, once | 7 |
| Yes, more than once | 9 |

HMB6     Were any acts of general, or nonselective terrorism (mining, sabotage, harassing fire, bombing of a public place, etc.) directed against people of this hamlet during the month?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, once | 7 |
| Yes, more than once | 9 |

HMC4     Did the hamlet PSDF engage or have opportunity to engage enemy forces during the month?

| Response | Weight |
|---|---|
| No, no contacts | 5 |
| Yes, PSDF performed poorly | 7 |
| Yes, PSDF performed satisfactorily | 3 |
| Yes, PSDF performed outstandingly | 1 |

HMD1  Were enemy military activities the direct cause of civilian casualties among hamlet residents?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but none killed | 7 |
| Yes, some (1-5) killed | 8 |
| Yes, more than five killed | 9 |

HMD2  Were enemy military activities the direct cause of physical damage to the property (personal possessions, livestock, crops, dwellings, etc.) of hamlet residents during the month?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, minor | 6 |
| Yes, serious but localized | 7 |
| Yes, widespread | 9 |

HMD6  Did a significant number of households (more than 10%) move to this hamlet during the past month?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, primarily from insecure areas | 2 |
| Yes, but not primarily from insecure areas | 4 |

HMD7     Did a significant number of households (more than 10%) move out of this hamlet during the month?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, primarily due to lack of security | 8 |
| Yes, primarily for reasons other than lack of security | 6 |

VQD8     Do the national police circulate freely in the village while in uniform?

| Response | Weight |
|---|---|
| No, no national police assigned | 5 |
| No | 7 |
| Yes, but only in groups | 6 |
| Yes, but only during the day | 3 |
| Yes, both day and night | 1 |

VQT6     Is there farm land which belongs to this village which is not presently cultivated?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, primarily because of bad security | 7 |
| Yes, primarily for reasons other than security | 5 |

HQC9    Does the PSDF perform well as an internal defense force?

| Response | Weight |
|---|---|
| No, there is no PSDF | 0 |
| No, primarily because of lack of equipment | 5 |
| No, primarily because of poor deployment | 5 |
| No, primarily because of lack of training | 5 |
| No, primarily because of lack of aggressiveness | 5 |
| PSDF is untested, but none of the above problems are evident | 4 |
| Yes | 3 |

HQR5    Is attendance at primary school classes restricted because of security conditions?

| Response | Weight |
|---|---|
| No | 2 |
| Yes | 8 |

Local Security Situation Dimension - using either of the following two questions as surrogate measures:

HMD1    Were enemy military activities the direct cause of civilian casualties among hamlet residents?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but none killed | 7 |
| Yes, some (1-5) killed | 8 |
| Yes, more than five killed | 9 |

HMB6     Were any acts of general or nonselective terrorism (mining, sabotage, harassing fire, bombing of a public place, etc.) directed against people of this hamlet during the month? (Province Level only)

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, once | 7 |
| Yes, more than once | 9 |

## ECONOMIC DEVELOPMENT

Economic Acitvity Index - hamlet and province level indices constructed from the following four questions:

VQL1     Is a variety of foodstuffs other than rice and nuoc mam (such as pork, vegetables, fruit, fish, etc.) for sale at the local market(s)?

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, limited quantity | 3 |
| Yes, ample quantities | 1 |

VQL2     Are manufactured goods, such as bicycle tires, kerosene, and aluminum pots, for sale at the local market(s)?

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, limited quantities | 3 |
| Yes, ample quantities | 1 |

VQL3   Is there a surplus of goods or foodstuffs produced in this village for sale outside of the village?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but small | 3 |
| Yes, large | 1 |

HQL1   Is there a market in this hamlet?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, serves hamlet residents primarily | 3 |
| Yes, serves residents of this hamlet and nearby hamlets of this village | 2 |
| Yes, serves residents of this village and adjacent villages | 1 |

Social Benefits Index - province and hamlet level indices constructed from the following 12 questions as noted:

VQP1   Is a GVN-sponsored public health station (dispensary) accessible to residents of this village? (Province Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in the village | 1 |

VQP2    Is a GVN-sponsored maternity clinic accessible to the residents of this village? (Province Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in the village | 1 |

VQP3    Is a hospital (or private physician practicing western medicine) accessible to residents of this village?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in the village | 1 |

VQP4    Can western medicines, particularly the more common antibiotics, be purchased locally by village residents?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but very limited supply | 3 |
| Yes, adequate supply | 1 |

HQP1    Are GVN-approved medical services accessible to hamlet residents? (Province Level only)

| Response | Weight |
|---|---|
| No, none accessible | 5 |
| Yes, but farther than a nearby hamlet | 4 |
| Yes, in a nearby hamlet | 3 |
| Yes, in this hamlet | 1 |

HQR1   Are the children of hamlet residents able to attend primary school classes (grades 1-5)? (Province Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but school located farther than nearby hamlet | 4 |
| Yes, school located in nearby hamlet | 3 |
| Yes, school located in this hamlet | 1 |

VQR1   Is a GVN-accredited secondary school (grades 6-12) accessible? (Province Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in this village | 1 |

VQR2   Do any of the children of village residents attend secondary schools?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, a few (less than 5% of school age children) | 4 |
| Yes, some (5 - 20%) | 3 |
| Yes, many (more than 20%) | 1 |

VQR3    Do any of the childred of this village complete the five-year primary education program?

| Response | Weight |
|---|---|
| No, none | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

HQR3    Is attendance at primary school classes restricted by lack of teachers?   (Hamlet Level only)

| Response | Weight |
|---|---|
| No | 2 |
| Yes | 5 |

HQR4    Is attendance at primary school restricted by absence or over-crowding of nearby facilities?   (Hamlet Level only)

| Response | Weight |
|---|---|
| No | 2 |
| Yes | 5 |

HQS1     Are there households in this hamlet which require assistance from others to maintain themselves at a subsistence level (friends, relatives, government, etc.)? (Hamlet Level only)

| Response | Weight |
|---|---|
| No | 1 |
| Yes, a few (less than 10%) | 2 |
| Yes, some (10 - 40%) | 3 |
| Yes, many 41 - 90%) | 4 |
| Yes, all or nearly all | 5 |

## LOCAL GOVERNMENT VIABILITY

Administrative Index - hamlet and province level indices constructed from the following 13 questions as noted:

VQE1     Is there an active GVN Village Administrative committee?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but consists of village chief only | 4 |
| Yes, but two or more positions are vacant | 3 |
| Yes, one position is vacant | 2 |
| Yes, all positions are filled | 1 |

VQE4     Is the GVN village chief regularly present in this village?

| Response | Weight |
|---|---|
| No, except when accompanying an operation | 5 |
| No irregularly | 4 |
| Yes, regularly, but only by day | 2 |
| Yes, regularly, day and night | 1 |

VQE5   Is there a functioning GVN village office located in this village where official business is regularly conducted or where village administrative records are maintained?

| Response | Weight |
|---|---|
| No | 5 |
| Yes | 3 |

VQF5   Do RD Cadre coordinate and cooperate with GVN village officials in the execution of their responsibilities?   (Hamlet Level only)

| Response | Weight |
|---|---|
| No, no RD Cadre | 5 |
| No | 5 |
| Yes, occasionally | 3 |
| Yes, regularly | 2 |

VQF6   Does the village chief have operational control over RD Cadre personnel working in this village?   (Hamlet Level only)

| Response | Weight |
|---|---|
| No, no RD Cadre | 5 |
| No, no control | 5 |
| Yes, partial | 3 |
| Yes, complete | 2 |

VQF7    Do the RD Cadre assigned to this village sleep in the village at night? (Hamlet Level only)

| Response | Weight |
|---|---|
| No, no RD Cadre | 5 |
| No | 5 |
| Yes, occasionally | 3 |
| Yes, regularly | 2 |

HQC5    Are any hamlet households located in areas where GVN administrative personnel are unable to move about with relative freedom during daylight hours?

| Response | Weight |
|---|---|
| No, none | 1 |
| Yes, a few (less than 10%) | 2 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 4 |
| Yes, all or nearly all | 5 |

HQD2    During daylight hours, do GVN authorities enforce the laws in this hamlet?

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, but marginal | 3 |
| Yes, adequate | 1 |

HQD3    During hours of darkness, do GVN authorities enforce the law in this hamlet?  (Hamlet Level only)

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, but marginal | 3 |
| Yes, adequate | 1 |

HQE1    Is there a GVN hamlet chief for this hamlet?  (Hamlet Level only)

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, appointed | 3 |
| Yes, elected | 2 |

HQE2    Is the GVN hamlet chief regularly prese.t in this hamlet?

| Response | Weight |
|----------|--------|
| No | 5 |
| No, irregularly | 4 |
| Yes, regularly, but only by day | 2 |
| Yes, regularly day and night | 1 |

HQE3    Who normally settles civil disputes (property rights, boundary disputes, etc.) involving hamlet residents?

| Response | Weight |
|---|---|
| VC Infrastructure officials | 8 |
| Religious leaders, elders or prominent individuals (neither GVN nor VC officials) | 4 |
| GVN officials | 2 |

HQE5    Does this hamlet have regular representation at village council meetings?

| Response | Weight |
|---|---|
| No | 5 |
| Yes | 2 |

Political Influence Index - province and hamlet level indices constructed from the following 14 questions as noted:

HQE1    Is there a GVN hamlet chief for this hamlet? (Province Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, appointed | 3 |
| Yes, elected | 2 |

VQE2    Are the present members of the GVN Village Council elected to their posts by the people of this village?

| Response | Weight |
|---|---|
| No, no active Village Council exists | 5 |
| No, all Village Council members appointed | 4 |
| Yes, a few are elected (less than 30%) | 4 |
| Yes, some are elected (30 - 70%) | 3 |
| Yes, many are elected (more than 70%) | 2 |
| Yes, all are elected | 1 |

VQE3　Is the present GVN village chief elected by the Village Council?

| Response | Weight |
|---|---|
| No | 5 |
| Yes | 2 |

VQE7　Does the GVN collect taxes in this village?

| Response | Weight |
|---|---|
| No | 5 |
| No, tax amnesty granted | 0 |
| Yes, but unsystematically or sporadically | 3 |
| Yes, systematically | 1 |

VQF1　How frequently does the Village Council convene open public meetings to discuss village development plans and projects, local grievances, aspirations, etc. ?

| Response | Weight |
|---|---|
| Never | 5 |
| Less than once a month | 4 |
| Once a month on the average | 2 |
| Twice a month or more | 1 |

**VQF2** Is action taken by the village chief to investigate and correct local grievances and to satisfy local aspirations expressed at public meetings convened by the Village Council?

| Response | Weight |
|---|---|
| No, and no public meetings are convened | 5 |
| No, meetings but no action | 5 |
| Yes, occasional action | 4 |
| Yes, regular action | 1 |

**VQF3** Are any non-communist political parties active in this village?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, one | 4 |
| Yes, two | 3 |
| Yes, more than two | 1 |

**VQF4** Are there any organized activities for the youth of this village (4T, Boy Scouts, sports, etc.)?

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes | 3 |

VQF7    Do the RD Cadre assigned to this village sleep in the village at night? (Province Level only)

| Response | Weight |
|----------|--------|
| No, no RD Cadre | 5 |
| No | 5 |
| Yes, occasionally | 3 |
| Yes, regularly | 2 |

VQN1    Were any new self-development projects selected by the people of this village during the quarter? (Province Level only)

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes, but none were selected at open public meetings | 4 |
| Yes, some were selected at open public meetings | 2 |
| Yes, all were selected at open public meetings | 1 |

VQT7    In this village, what percentage of the farmers have not received titles to their land? (Hamlet Level only)

| Response | Weight |
|---|---|
| All eligible farmers have received titles | 1 |
| Less than 10% have not received titles | 2 |
| More than 10% but less than 30% have not received titles | 3 |
| More than 30% but less than 60% have not received titles | 4 |
| 60% or more have not received titles | 5 |

HQC6    Do any hamlet households have a member of members active in the PSDF?

| Response | Weight |
|---|---|
| No, none | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

HQC7    How active is the PSDF in this hamlet?

| Response | Weight |
|---|---|
| None organized | 5 |
| Organized, but inactive | 5 |
| Training and drills only | 4 |
| Organized nonmilitary activity only | 3 |
| Standing armed guard in the hamlet | 2 |
| Armed patrols and guard within the hamlet | 1 |

HQF2    Do any hamlet households have a member or members working in GVN civil or military service?

| Response | Weight |
| --- | --- |
| No, none | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

HQF3    Do any hamlet households have a member or members participating in non-VC civic or religious organizations (Farmers Associations, Co-op's, Boy Scouts, etc.)? (Hamlet Level only)

| Response | Weight |
| --- | --- |
| No, none | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

HQF6    Do any of the hamlet households have a member or members participating in "peoples' groups" organized by members of an RD Cadre Team?

| Response | Weight |
| --- | --- |
| No, none | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

HQN1    Did any hamlet households have a member or members participating in GVN-sponsored economic improvement programs (agriculture, animal husbandry, fisheries, handicrafts, etc.) during the past quarter? (Hamlet Level only)

| Response | Weight |
|---|---|
| No, no such programs | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

HQN2    Did any hamlet households have a member or members who participated in self-development projects during the past quarter?

| Response | Weight |
|---|---|
| No, no such projects | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (41 - 90%) | 2 |
| Yes, all or nearly all | 1 |

VC political Influence Index - province and hamlet level indices constructed from the following eight questions as noted:

HMB1    Do enemy forces physically control this hamlet? (Province Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes | 7 |
| Yes, defensive works have been constructed by enemy forces to establish a "combat hamlet" | 9 |

HQB1    Which of the following most closely reflects the status of the enemy infrastructure in this hamlet?

| Response | Weight |
|---|---|
| No known or suspected infrastructure | 5 |
| Sporadic covert activity, little or no overt activity | 6 |
| Regular covert activity, sporadic overt activity generally at night | 7 |
| The primary authority in the hamlet at night, but most operate covertly in the day | 8 |
| The primary authority present day and night | 9 |

VQB1    Which of the following most closely reflects the activity of the village level VC infrastructure in the village? (Province Level only)

| Response | Weight |
|---|---|
| No known or suspected infrastructure | 5 |
| Sporadic covert activity, little or no overt activity | 6 |
| Regular covert activity, sporadic overt activity | 7 |
| Regular overt activity, but not firmly established | 8 |
| Unchallenged authority in the village | 9 |

HMB8     Were any enemy propaganda meetings held or was printed propaganda distributed in this hamlet during the month? (Hamlet Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, once | 7 |
| Yes, more than once | 9 |

HQE3     Who normally settles civil disputes (property rights, boundary disputes, etc.) involving hamlet residents?

| Response | Weight |
|---|---|
| VC infrastructure officials | 8 |
| Religious leaders, elders or prominent individuals (neither GVN nor VC officials) | 4 |
| GVN officials | 2 |

HQB2     Does the enemy collect taxes from hamlet households (in cash or in kind)?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, sporadically | 7 |
| Yes, regularly and systematically | 9 |

HQF1     Do any hamlet households have a member or members in enemy service?

| Response | Weight |
|---|---|
| No, none | 5 |
| Yes, a few (less than 10%) | 6 |
| Yes, some (10 - 40%) | 7 |
| Yes, many (41 - 90%) | 8 |
| Yes, all or nearly all | 9 |

HQB3    Do any hamlet households have a member or members who participated by coercion or otherwise in enemy-organized nonmilitary group activities (public meetings, demonstrations, work gangs, etc.) during the past quarter?

| Response | Weight |
|---|---|
| No, none | 5 |
| Yes, a few (less than 10%) | 6 |
| Yes, some (10 - 40%) | 7 |
| Yes, many (41 - 90%) | 8 |
| Yes, all or nearly all | 9 |

INDEPENDENT VARIABLES:

Village Program Effort - aggregate measure

- Economic Stimulation Index - hamlet and province level indices constructed from the following seven questions:

  VQL5    Is skills-training offered to village inhabitants? (Check the response which indicates who contributes the most training.) (Hamlet Level only)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, by employers such as small repair shops | 4 |
| Yes, by the GVN Ministry of Labor or the GVN Ministry of Education | 2 |
| Yes, under the auspices of some other GVN agency | 2 |
| Yes, by foreign agencies (US military or others) | 3 |

VQN2    Have any self-development projects in this village been retarded because of absence of technical assistance from province or district level personnel?

| Response | Weight |
|---|---|
| No such projects | 5 |
| No, no retardation | 1 |
| Yes, minor retardation | 2 |
| Yes, serious retardation | 4 |
| Yes, resulting in project abandonment | 5 |

VQN3    Have any self-development projects in this village been retarded because of shortage of resources? (e.g., cement, roofing materials, fertilizer, seed, pumps, etc.)

| Response | Weight |
|---|---|
| No such projects | 5 |
| No, no retardation | 1 |
| Yes, minor retardation | 2 |
| Yes, serious retardation | 3 |
| Yes, resulting in project abandonment | 5 |

VQN4    Were any needed village public works projects (e.g., roads, markets, wells, etc.) under construction in this village during the quarter?

| Response | Weight |
| --- | --- |
| No | 5 |
| Yes | 3 |

VQN5    Do GVN technical personnel visit this village in support of local development programs? For example, agriculture technicians, animal husbandary specialists, fisheries specialists, etc. (Hamlet Level only)

| Response | Weight |
| --- | --- |
| No | 5 |
| Yes, but infrequently (less than once a month) | 4 |
| Yes, periodically (1-3 times a month) | 3 |
| Yes, regularly (once a week or more) | 2 |
| Yes, resident in village | 1 |

VQV3    How many families received cash loans through the Agricultural Credit Programs? (Hamlet Level only)

| Response | Weight |
| --- | --- |
| None | 5 |
| Less than 10% | 4 |
| 10 - 30% | 4 |
| 31 - 60% | 3 |
| 61 - 90% | 2 |
| More than 90% | 1 |

HQN1    Did any hamlet households have a member or members partici-
        pating in GVN-sponsored economic improvement programs
        (agriculture, animal husbandry, fisheries, handicraft, etc.)
        during the past quarter?  (Province Level only)

| Response | Weight |
|---|---|
| No, no such programs | 5 |
| Yes, a few (less than 10%) | 4 |
| Yes, some (10 - 40%) | 3 |
| Yes, many (40 - 90%) | 2 |
| Yes, all or nearly all | 1 |

Village Program Effort - individual questions

VQE8    Have the major village officials (the Village Chief, the Deputy
        for Security, and the Deputy for Administration) received
        training at the Vung Tau training center?

| Response | Weight |
|---|---|
| No, none have received official training | 5 |
| Only the village chief is trained | 4 |
| Only the Deputy for Security is trained | 4 |
| Only the Deputy for Administration is trained | 4 |
| Both the Deputy for Administration and village chief are trained | 3 |
| Both the Deputy for Administration and Deputy for Security are trained | 3 |
| Both the Deputy for Security and village chief are trained | 3 |
| Yes, all three major village officials are trained | 1 |

VQG1    Does the village office have a trained Information/Chieu Hoi
        Cadre assigned?

| Response | Weight |
|---|---|
| No | 5 |
| No, appointed but not yet trained | 4 |
| Yes, but not resident full-time in the village | 2 |
| Yes, resident full-time in the village | 1 |

VQG2    How often are village residents exposed to GVN movies,
        cultural drama team performances, etc. ?

| Response | Weight |
|---|---|
| Never | 5 |
| Infrequently (less than once a month) | 4 |
| Periodically (1-3 times a month) | 3 |
| Regularly (once a week or more) | 2 |

VQG3    How frequently do mobile GVN information cadre (such as
        VIS personnel, APT, S-5) visit this village?

| Response | Weight |
|---|---|
| Never | 5 |
| Less than once a month | 4 |
| 1-3 times a month | 3 |
| 1-3 times a week | 2 |
| More than three times a week | 1 |

VQL5    Is skills-training offered to village inhabitants? (Check the response which indicates who contributes the most training.)

| Response | Weight |
|---|---|
| No | 5 |
| Yes, by employers such as small repair shops | 4 |
| Yes, by the GVN Ministry of Labor or the GVN Ministry of Education | 2 |
| Yes, under the auspices of some other GVN agency | 2 |
| Yes, by foreign agencies (US military or others) | 3 |

VQN1    Were any new self-development projects selected by the people of this village during the quarter?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but none were selected at open public meetings | 4 |
| Yes, some were selected at open public meetings | 2 |
| Yes, all were selected at open public meetings | 1 |

VQN2    Have any self-development projects in this village been retarded because of absence of technical assistance from province or district level personnel?

| Response | Weight |
|----------|--------|
| No such projects | 5 |
| No, no retardation | 1 |
| Yes, minor retardation | 2 |
| Yes, serious retardation | 4 |
| Yes, resulting in project abandonment | 5 |

VQN3     Have any self-development projects in this village been re-tarded because of shortage of resources? (e.g., cement, roofing materials, fertilizer, seed, pumps, etc.)

| Response | Weight |
|----------|--------|
| No such projects | 5 |
| No, no retardation | 1 |
| Yes, minor retardation | 2 |
| Yes, serious retardation | 3 |
| Yes, resulting in project abandonment | 5 |

VQN4     Were any needed village public works projects (e.g., roads, markets, wells, etc.) under construction in this village dur-ing the quarter?

| Response | Weight |
|----------|--------|
| No | 5 |
| Yes | 3 |

VQN5 Do GVN technical personnel visit this village in support of local development programs? For example, agriculture technicians, animal husbandary specialists, fisheries specialists, etc.

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but infrequently (less than once a month) | 4 |
| Yes, periodically (1-3 times a month) | 3 |
| Yes, regularly (once a week or more) | 2 |
| Yes, resident in village | 1 |

VQP1 Is a GVN-sponsored public health station (dispensary) accessible to residents of this village?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in the village | 1 |

VQP2 Is a GVN-sanctioned maternity clinic accessible to residents of this village?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in the village | 1 |

VQR1 Is a GVN-accredited secondary school (grades 6-12) accessible?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but farther than an adjacent village | 4 |
| Yes, in an adjacent village | 3 |
| Yes, in this village | 1 |

VQT5 Has a Land Reform Committee been organized for this village?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but presently inactive | 4 |
| Yes, land reform actions are underway, but no land titles granted during past quarter | 3 |
| Yes, some land titles were granted during the past quarter | 1 |

VQT8 Have officials in the Province Land Affairs Service visited this village to assist in implementing the Land to the Tiller program during the quarter?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, once | 4 |
| Yes, 2 - 4 times | 2 |
| Yes, more than four times | 1 |

VQT10    Which of the following best describe land reform implementation in the village?

| Response | Weight |
|---|---|
| There is no Village Land Registrar and no effort is being made to recruit one | 5 |
| There is a Village Land Registrar but little is being done to implement land reform | 4 |
| There is a Village Land Registrar and some work to implement land reform has been accomplished | 3 |
| There is a Village Land Registrar and much has been done to implement land reform | 1 |

VQV3    How many families received cash loans through the Agricultural Credit Programs?

| Response | Weight |
|---|---|
| None | 5 |
| Less than 10% | 4 |
| 10 - 30% | 4 |
| 31 - 60% | 3 |
| 61 - 90% | 2 |
| More than 90% | 1 |

VQV7    Is there an adequate irrigation system in the village?

| Response | Weight |
|---|---|
| No, none needed | 0 |
| No, but one is needed | 5 |
| No, but one is under construction | 3 |
| Yes, but requires repair | 4 |
| Yes | 2 |

VQV9    Did the rural organizations (Agricultural Extension, 4T, Home Economics, Animal Health Service, Farmers' Organization, cooperatives, To Hop) work activity in the villages during the past quarter?

| Response | Weight |
|---|---|
| Yes | 1 |
| Some activities, but ineffective | 3 |
| No, no activities due to poor security | 6 |
| No, no organizations exist | 5 |

VQV10    Did the Agriculture or RD Cadre in charge of Agriculture, Fisheries, and Animal Husbandry regularly come to the village to visit farm families and give them technical guidance during the quarter?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but less than once a month | 4 |
| Yes, about once a month | 3 |
| Yes, two or three times a month | 2 |
| Yes, four or more times a month | 1 |

HQF4 Have RD Cadre worked in this hamlet during the past quarter?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but no cadre currently working | 3 |
| Yes, cadre currently working | 2 |

HQG1 Does the GVN Hamlet Chief have a trained hamlet information/ Chieu Hoi cadre?

| Response | Weight |
|---|---|
| No | 5 |
| No, appointed but not yet trained | 4 |
| Yes, but not a full-time resident of the hamlet | 2 |
| Yes, resident full-time | 1 |

HQG2 How often are new GVN static visual displays (posters, banners, etc.) posted in this hamlet?

| Response | Weight |
|---|---|
| Never | 5 |
| Infrequently (less than once a month) | 4 |
| Periodically (1-3 times a month) | 2 |
| Regularly (once a week or more) | 1 |

HQN3 Are self-development projects physically underway in this hamlet?

| Response | Weight |
|---|---|
| No, none needed | 0 |
| No, there have been no such projects | 5 |
| No, there have been some project completed but more are needed | 4 |
| No, there have been some projects completed and no more are needed | 1 |
| Yes, but they are progressing slowly | 3 |
| Yes, and they are progressing satisfactorily | 2 |

HQP1    Are GVN approved medical services accessible to hamlet residents?

| Response | Weight |
|---|---|
| No, none accessible | 5 |
| Yes, but farther than a nearby hamlet | 4 |
| Yes, in a nearby hamlet | 3 |
| Yes, in this hamlet | 1 |

HQP2    Do GVN health workers visit this hamlet to provide medical service, arrange for patient treatment, give health instructions, improve sanitation, etc. ?

| Response | Weight |
|---|---|
| Never | 5 |
| Yes, but infrequently (less than once a month) | 4 |
| Yes, periodically (1-3 times a month) | 3 |
| Yes, regularly (once a week or more) | 2 |
| Yes, resident in hamlet | 1 |

HQR 1     Are the children of hamlet residents able to attend primary school classes (grades 1-5)?

| Response | Weight |
|---|---|
| No | 5 |
| Yes, but school located farther than nearby hamlet | 4 |
| Yes, school located in nearby hamlet | 3 |
| Yes, school located in this hamlet | 1 |

HQS2     Have authorized resettlement allowances been paid to eligible refugees resettled in this hamlet during the past quarter?

| Response | Weight |
|---|---|
| No, no eligible refugees | 0 |
| No, needed but none paid | 5 |
| Yes, but delayed or less than full amount or both | 3 |
| Yes, promptly and in full amount | 1 |

HQS4     Has any welfare assistance been provided by GVN sources to needy households in this hamlet (excluding assistance provided to GVN-recognized refugees) during the past quarter?

| Response | Weight |
|---|---|
| No, none needed | 0 |
| No | 4 |
| Yes | 2 |

HQS5    Has assistance been provided by or through GVN channels during the past quarter to hamlet households who have had their homes or property damaged or destroyed due to combat-related activity in or near the hamlet?

| Response | Weight |
|----------|--------|
| No, none needed | 0 |
| No, needed but none provided | 5 |
| Yes, but insufficient or delayed | 3 |
| Yes, adequate | 1 |